

=> d his

(FILE 'HOME' ENTERED AT 21:39:07 ON 20 DEC 2007)

FILE 'REGISTRY' ENTERED AT 21:39:16 ON 20 DEC 2007

L1 STRUCTURE UPLOADED

L2 23 S L1

L3 349 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 21:42:23 ON 20 DEC 2007

L4 11 S L3

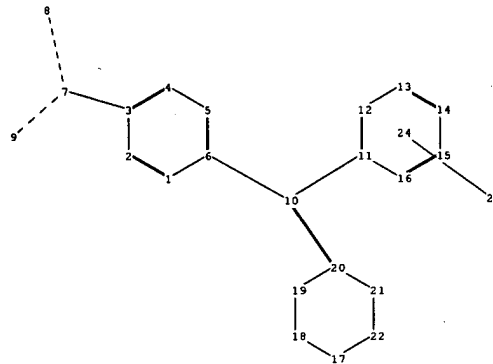
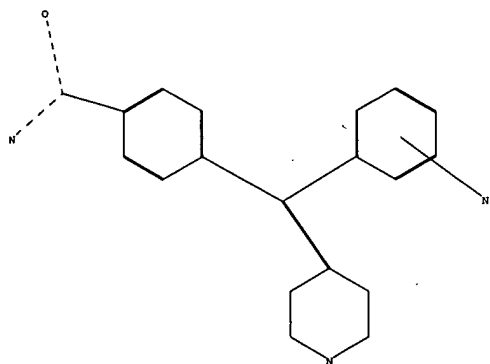
L5 10 S L4 AND BROWN, W?/AU

FILE 'CAOLD' ENTERED AT 21:45:02 ON 20 DEC 2007

=> s l3

L6 0 L3

=>



```

chain nodes :
  7 8 9 10 23
ring nodes :
  1 2 3 4 5 6 11 12 13 14 15 16 17 18 19 20 21 22
chain bonds :
  3-7 6-10 7-8 7-9 10-11 10-20
ring bonds :
  1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16 17-18 17-22
  18-19 19-20 20-21 21-22
exact/norm bonds :
  7-8 7-9 17-18 17-22 18-19 19-20 20-21 21-22
exact bonds :
  3-7 6-10 10-11 10-20
normalized bonds :
  1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16
isolated ring systems :
  containing 1 : 11 : 17 :
  
```

```

Match level :
  1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
  11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom
  21:Atom 22:Atom 23:CLASS 24:Atom
  
```

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1143	((546/234) or (546/212) or (546/214)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/12/20 18:12
L2	147	1 and benzamide and phenyl	US-PGPUB; USPAT	OR	OFF	2007/12/20 18:15
L3	174	(brown adj william.inv.)	US-PGPUB	OR	OFF	2007/12/20 18:35
L4	23	(griffin adj andrew.inv.)	US-PGPUB	OR	OFF	2007/12/20 18:36

11203341

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NEWS	6	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	7	AUG 27	USPATOLD now available on STN
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NEWS	12	SEP 17	CA/CAPLUS enhanced with printed CA page images from 1967-1998
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NEWS	17	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	18	NOV 19	WPIX enhanced with XML display format
NEWS	19	NOV 30	ICSD reloaded with enhancements
NEWS	20	DEC 04	LINPADOCDB now available on STN
NEWS	21	DEC 14	BEILSTEIN pricing structure to change
NEWS	22	DEC 17	USPATOLD added to additional database clusters
NEWS	23	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	24	DEC 17	DGENE now includes more than 10 million sequences
NEWS	25	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	26	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS	27	DEC 17	CA/CAPLUS enhanced with new custom IPC display formats
NEWS	28	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
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AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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=> file hcaplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

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FILE COVERS 1907 - 20 Dec 2007 VOL 147 ISS 26
FILE LAST UPDATED: 19 Dec 2007 (20071219/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s nitrogen () protecting () group?
      676417 NITROGEN
      4016 NITROGENS
      679247 NITROGEN
          (NITROGEN OR NITROGENS)
      67802 PROTECTING
      2397802 GROUP?
L1      123 NITROGEN (W) PROTECTING (W) GROUP?

=> s l1 and review/dt
      2096984 REVIEW/DT
L2      2 L1 AND REVIEW/DT

=> d l2, ibib abs, 1-2
```

Updated Search

11203341

L2 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:278673 HCAPLUS

DOCUMENT NUMBER: 133:73618

TITLE: Nitrogen protecting groups
: recent developments and new applications

AUTHOR(S): Theodoridis, George

CORPORATE SOURCE: Agricultural Products Group, FMC Corporation,
Princeton, NJ, 08543, USA

SOURCE: Tetrahedron (2000), 56(16), 2339-2358

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB Review with 95 refs.

REFERENCE COUNT: 123 THERE ARE 123 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L2 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:522214 HCAPLUS

DOCUMENT NUMBER: 127:190656

TITLE: C-N bond formation reactions via transition metal
catalysis

AUTHOR(S): Tamaru, Yoshinao; Kimura, Masanari

CORPORATE SOURCE: Faculty Engineering, Nagasaki University, Nagasaki,
852, Japan

SOURCE: Synlett (1997), (7), 749-757

CODEN: SYNLES; ISSN: 0936-5214

PUBLISHER: Thieme

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with .apprx.40 refs. on the authors' recent studies. The
amination of acetylenic, olefinic, and allenic π -bonds can be achieved
catalytically with resp. to transition metals by the proper choice of
transition metals, nitrogen protecting groups
, and the reaction medium. The amination of C-C multiple bonds is a
viable process to prepare a wide variety of nitrogen heterocycles. The
amination, coupled with either carbonylation or allylation produces a
variety of functionalized nitrogen heterocycles, which might be utilized
as synthetic intermediates of α - and β -amino acids and unsatd.
amines with stereochem. defined structures.

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NEWS	26	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS	27	DEC 17	CA/CAPplus enhanced with new custom IPC display formats
NEWS	28	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD

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=> file reg

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FULL ESTIMATED COST	0.21	0.21

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STRUCTURE FILE UPDATES: 19 DEC 2007 HIGHEST RN 958936-22-6

DICTIONARY FILE UPDATES: 19 DEC 2007 HIGHEST RN 958936-22-6

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\azxb.str

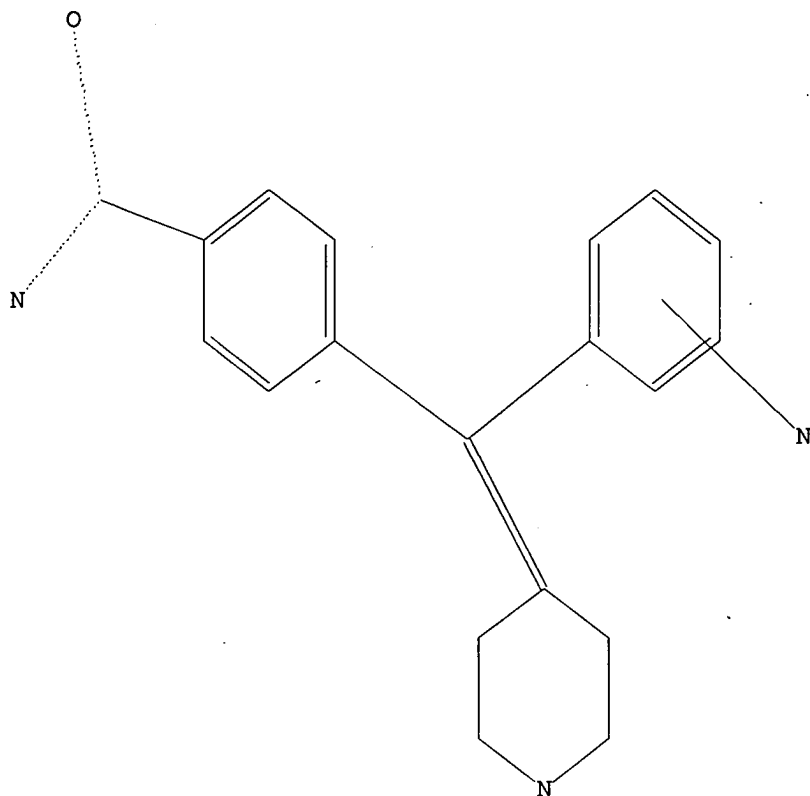
L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

Updated Search



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 21:42:16 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 70 TO ITERATE

100.0% PROCESSED 70 ITERATIONS 23 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 899 TO 1901
 PROJECTED ANSWERS: 173 TO 747

L2 23 SEA SSS SAM L1

=> s l1 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
 FULL SEARCH INITIATED 21:42:20 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 1182 TO ITERATE

100.0% PROCESSED 1182 ITERATIONS 349 ANSWERS
 SEARCH TIME: 00.00.01

L3 349 SEA SSS FUL L1

Updated Search

=> file hcaplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
173.90	174.11

FULL ESTIMATED COST

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FILE COVERS 1907 - 20 Dec 2007 VOL 147 ISS 26
FILE LAST UPDATED: 19 Dec 2007 (20071219/ED)

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=> s 13

L4 11 L3

=> s 14 and brown, w?/au

4180 BROWN, W?/AU

L5 10 L4 AND BROWN, W?/AU

=> d 15, ibib abs hitstr, 1-11

L5 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:638846 HCAPLUS

DOCUMENT NUMBER: 143:153295

TITLE: Preparation of diarylmethylidenylpiperidines for the management of pain

INVENTOR(S): Brown, William; Griffin, Andrew; Walpole, Christopher

PATENT ASSIGNEE(S): Astrazeneca AB, Swed.

SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005066128	A1	20050721	WO 2005-SE13	20050105
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,			

Updated Search

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

AU 2005204009	A1	20050721	AU 2005-204009	20050105
CA 2552850	A1	20050721	CA 2005-2552850	20050105
EP 1706380	A1	20061004	EP 2005-704687	20050105
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, HR, IS				
CN 1926105	A	20070307	CN 2005-80006251	20050105
BR 2005006707	A	20070502	BR 2005-6707	20050105
JP 2007517872	T	20070705	JP 2006-549189	20050105
IN 2006DN03735	A	20070420	IN 2006-DN3735	20060629
MX 2006PA07662	A	20060904	MX 2006-PA7662	20060703
NO 2006003617	A	20061009	NO 2006-3617	20060809
PRIORITY APPLN. INFO.:			SE 2004-25	A 20040109
			WO 2005-SE13	W 20050105
OTHER SOURCE(S):		CASREACT 143:153295; MARPAT 143:153295		
GI				

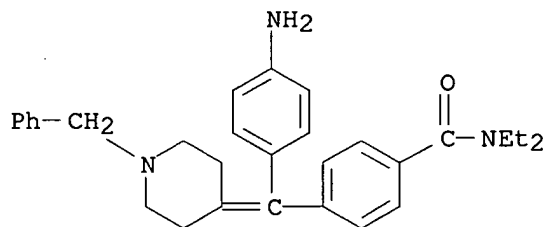
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1 = (un)substituted aryl, heteroaryl; R2 = alkyl, H; R3 = H, COR4, SO2R4, etc.; R4 = H, alkyl, alkenyl, etc.] and their pharmaceutically acceptable salts were prepared For example, N-acetylation of aniline II (R2 = H) with acetic anhydride afforded the TFA salt of diarylmethylidenylpiperidine II (R2 = COCH3) in 100% yield. In human δ receptor assays, certain examples of compds. I exhibited IC50 values ranging from 0.22-2.34 nM, with an average of 0.98 nM (sic).

IT 859911-39-0P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of diarylmethylidenylpiperidines for the management of pain)

RN 859911-39-0 HCAPLUS

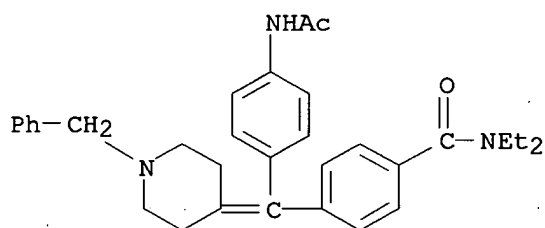
CN Benzamide, 4-[(4-aminophenyl)[1-(phenylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

Updated Search

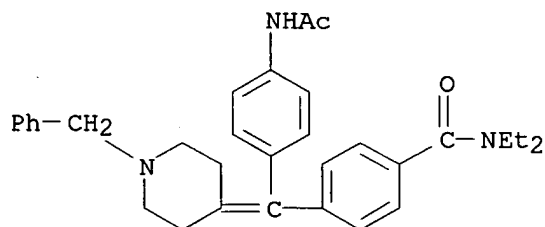
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 859911-43-6P 859911-44-7P 859911-45-8P
 859911-46-9P 859911-47-0P 859911-48-1P,
 4-[[4-(Acetylamino)phenyl][1-(1,3-thiazol-4-ylmethyl)piperidin-4-ylidene)methyl]-N,N-diethylbenzamide 859911-49-2P
 859911-50-5P, 4-[(1-Benzylpiperidin-4-ylidene)[4-(methylsulfonyl)amino]phenyl)methyl]-N,N-diethylbenzamide
 859911-51-6P 859911-52-7P 859911-53-8P
 859911-54-9P, 4-[[4-(Acetylamino)phenyl][1-(2-fluorobenzyl)piperidin-4-ylidene)methyl]-N,N-diethylbenzamide
 859911-55-0P 859911-56-1P 859911-57-2P
 859911-58-3P, 4-[(4-Aminophenyl)(1-benzylpiperidin-4-ylidene)methyl]-N,N-diethylbenzamide
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of diarylmethylidenylpiperidines for the management of pain)
 RN 859911-40-3 HCAPLUS
 CN Benzamide, 4-[[4-(acetylamino)phenyl][1-(phenylmethyl)-4-piperidinylidene)methyl]-N,N-diethyl- (CA INDEX NAME)



RN 859911-41-4 HCAPLUS
 CN Benzamide, 4-[[4-(acetylamino)phenyl][1-(phenylmethyl)-4-piperidinylidene)methyl]-N,N-diethyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

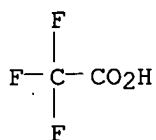
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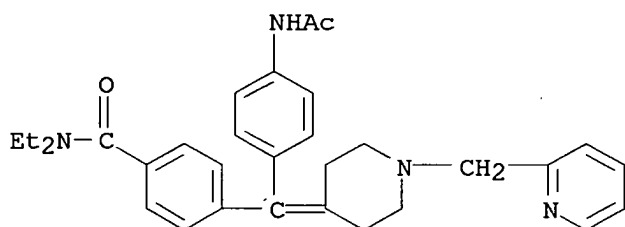
CM 2

Updated Search

CRN 76-05-1
CMF C2 H F3 O2



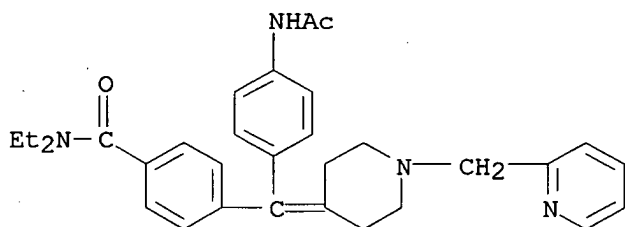
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CN Benzamide, 4-[[4-(acetylamino)phenyl][1-(2-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 859911-43-6 HCAPLUS
CN Benzamide, 4-[[4-(acetylamino)phenyl][1-(2-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

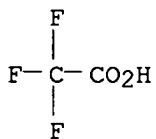
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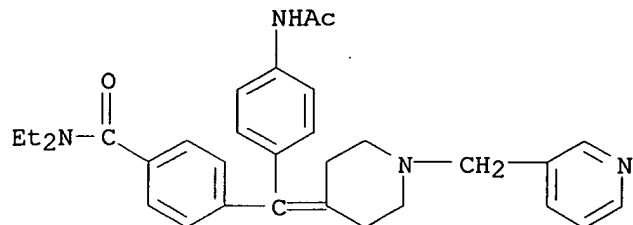
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CRN 76-05-1
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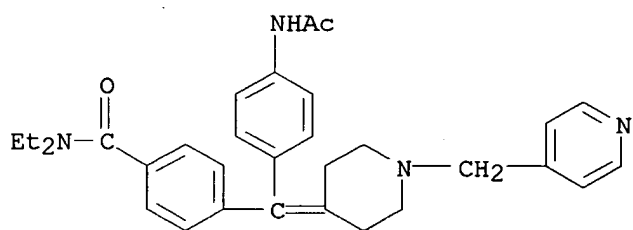


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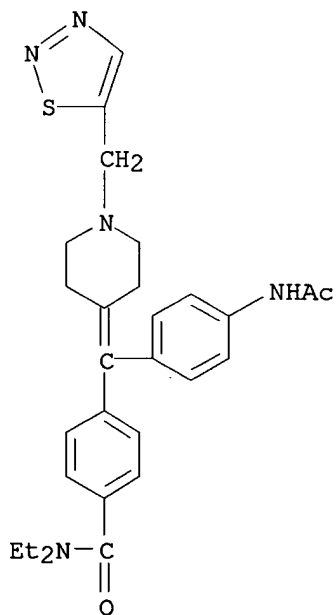
RN 859911-44-7 HCAPLUS
 CN Benzamide, 4-[[4-(acetylamino)phenyl][1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 859911-45-8 HCAPLUS
 CN Benzamide, 4-[[4-(acetylamino)phenyl][1-(4-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



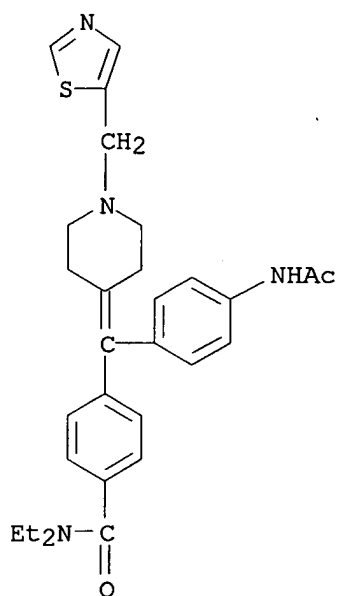
RN 859911-46-9 HCAPLUS
 CN Benzamide, 4-[[4-(acetylamino)phenyl][1-(1,2,3-thiadiazol-5-ylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 859911-47-0 HCAPLUS

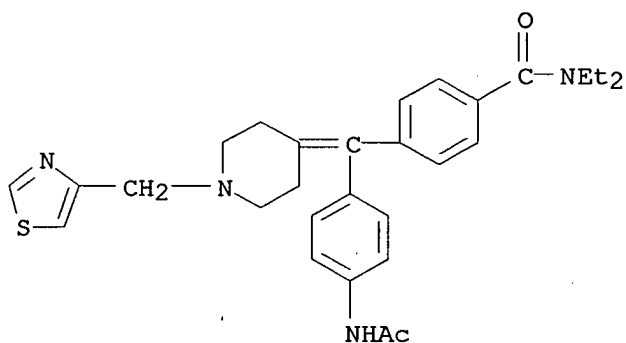
Updated Search

CN Benzamide, 4-[[4-(acetamino)phenyl][1-(5-thiazolylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 859911-48-1 HCAPLUS

CN Benzamide, 4-[[4-(acetamino)phenyl][1-(4-thiazolylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 859911-49-2 HCAPLUS

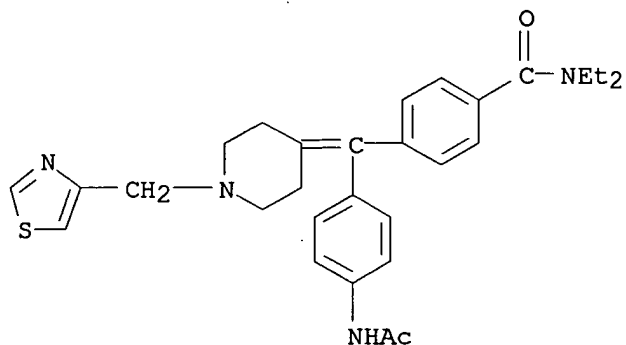
CN Benzamide, 4-[[4-(acetamino)phenyl][1-(4-thiazolylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-48-1

CMF C29 H34 N4 O2 S

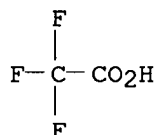
Updated Search



CM 2

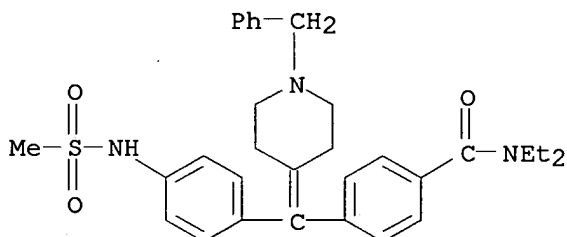
CRN 76-05-1

CMF C2 H F3 O2



RN 859911-50-5 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[4-[(methylsulfonyl)amino]phenyl][1-(phenylmethyl)-4-piperidinylidene]methyl]- (CA INDEX NAME)



RN 859911-51-6 HCAPLUS

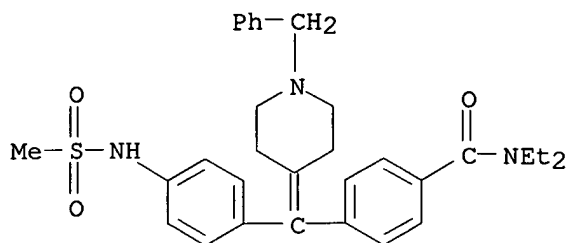
CN Benzamide, N,N-diethyl-4-[[4-[(methylsulfonyl)amino]phenyl][1-(phenylmethyl)-4-piperidinylidene]methyl]-, mono(trifluoroacetate) (9CI)
(CA INDEX NAME)

CM 1

CRN 859911-50-5

CMF C31 H37 N3 O3 S

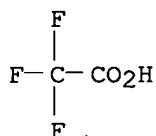
Updated Search



CM 2

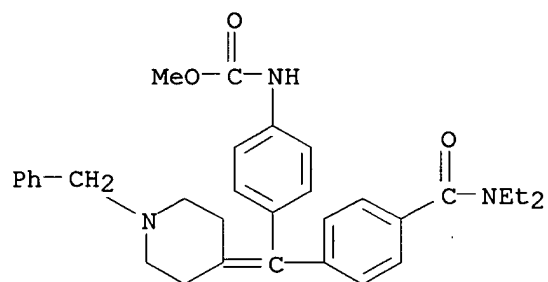
CRN 76-05-1

CMF C2 H F3 O2



RN 859911-52-7 HCAPLUS

CN Carbamic acid, [4-[[4-[(diethylamino)carbonyl]phenyl][1-(phenylmethyl)-4-piperidinyldene]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 859911-53-8 HCAPLUS

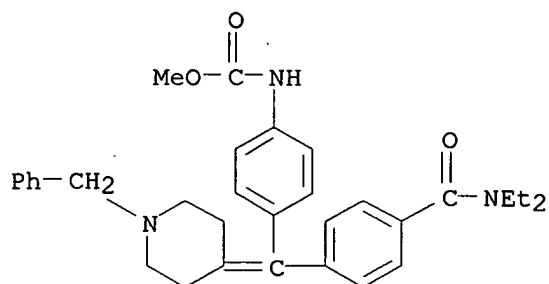
CN Carbamic acid, [4-[[4-[(diethylamino)carbonyl]phenyl][1-(phenylmethyl)-4-piperidinyldene]methyl]phenyl]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-52-7

CMF C32 H37 N3 O3

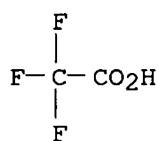
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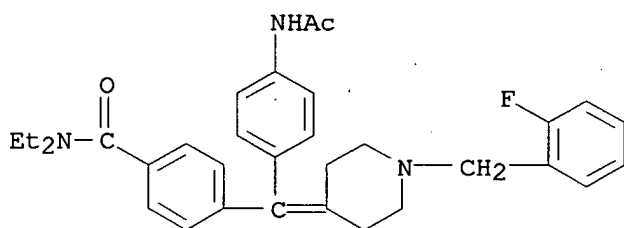
CRN . 76-05-1

CMF C2 H F3 O2



RN 859911-54-9 HCAPLUS

CN Benzamide, 4-[[4-(acetylamino)phenyl][1-[(2-fluorophenyl)methyl]-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 859911-55-0 HCAPLUS

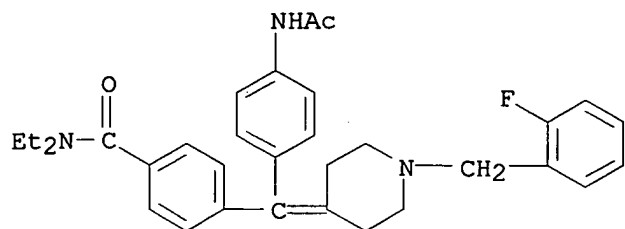
CN Benzamide, 4-[[4-(acetylamino)phenyl][1-[(2-fluorophenyl)methyl]-4-piperidinylidene]methyl]-N,N-diethyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-54-9

CMF C32 H36 F N3 O2

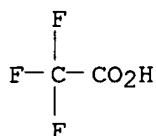
Updated Search



CM 2

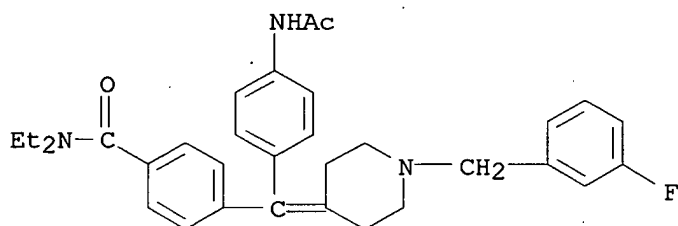
CRN 76-05-1

CMF C2 H F3 O2



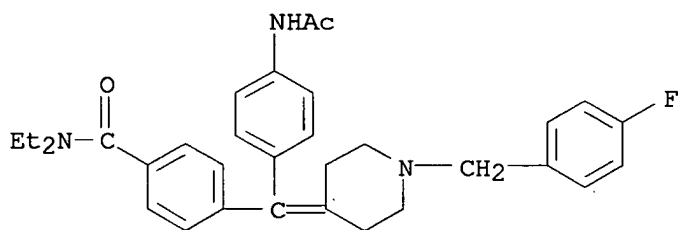
RN 859911-56-1 HCAPLUS

CN Benzamide, 4-[[4-(acetamino)phenyl][1-[(3-fluorophenyl)methyl]-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 859911-57-2 HCAPLUS

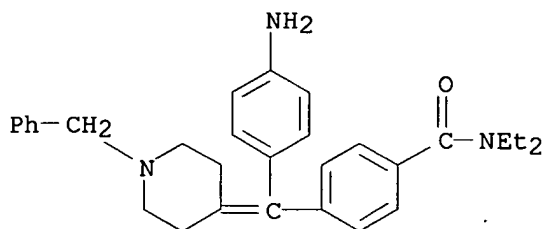
CN Benzamide, 4-[[4-(acetamino)phenyl][1-[(4-fluorophenyl)methyl]-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



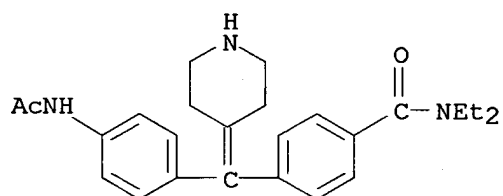
RN 859911-58-3 HCAPLUS

CN Benzamide, 4-[(4-aminophenyl)[1-(phenylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)

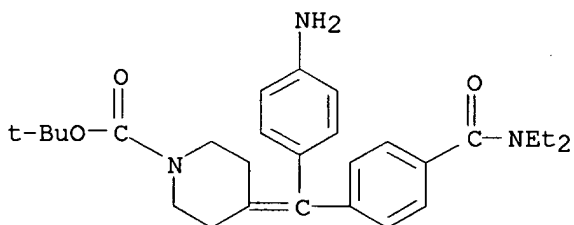
Updated Search



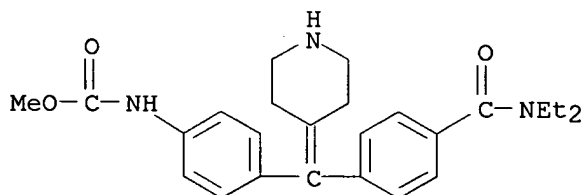
IT 859911-59-4P, 4-[[4-(Acetylamino)phenyl]-4-piperidinyldenemethyl]-
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 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of diarylmethylidenepiperidines for the management of pain)
 RN 859911-59-4 HCAPLUS
 CN Benzamide, 4-[[4-(acetylamino)phenyl]-4-piperidinyldenemethyl]-N,N-
 diethyl- (CA INDEX NAME)



RN 859911-60-7 HCAPLUS
 CN 1-Piperidinecarboxylic acid, 4-[(4-aminophenyl)[4-
 [(diethylamino)carbonyl]phenyl]methylene]-, 1,1-dimethylethyl ester (CA
 INDEX NAME)



RN 859911-61-8 HCAPLUS
 CN Carbamic acid, [4-[[4-[(diethylamino)carbonyl]phenyl]-4-
 piperidinyldenemethyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



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REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:638845 HCAPLUS
DOCUMENT NUMBER: 143:153294
TITLE: Preparation of diarylmethylidenylpiperidines for the management of pain
INVENTOR(S): Brown, William; Griffin, Andrew
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.
SOURCE: PCT Int. Appl., 67 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005066127	A1	20050721	WO 2005-SE12	20050105
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005204008	A1	20050721	AU 2005-204008	20050105
CA 2552946	A1	20050721	CA 2005-2552946	20050105
EP 1706379	A1	20061004	EP 2005-704686	20050105
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, HR, IS				
CN 1926106	A	20070307	CN 2005-80006331	20050105
BR 2005006695	A	20070502	BR 2005-6695	20050105
JP 2007517871	T	20070705	JP 2006-549188	20050105
IN 2006DN03740	A	20070420	IN 2006-DN3740	20060629
MX 2006PA07663	A	20060904	MX 2006-PA7663	20060703
NO 2006003618	A	20061009	NO 2006-3618	20060809
US 2007219249	A1	20070920	US 2006-596850	20061208
PRIORITY APPLN. INFO.:			SE 2004-26	A 20040109
			WO 2005-SE12	W 20050105
OTHER SOURCE(S):			CASREACT 143:153294; MARPAT 143:153294	
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1, R3 = H, alkyl, cycloalkyl, etc.; R2 = alkyl, alkenyl, cycloalkyl, etc.] and their pharmaceutically acceptable salts were prepared For example, N-alkylation of piperidine II (R2 = H) with 1-iodopropane afforded the TFA salt of diarylmethylidenylpiperidine II (R2 = CH2CH2CH3) in 54% yield. In human δ receptor assays, certain examples of compds. I exhibited IC50 values ranging from 0.18-3.7 nM, with an average of

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0.56 nM (sic).

IT 859911-03-8P 859911-04-9P 859911-05-0P
859911-06-1P 859911-07-2P 859911-08-3P
859911-09-4P 859911-10-7P 859911-11-8P
859911-12-9P 859911-13-0P 859911-14-1P
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859911-18-5P 859911-19-6P 859911-20-9P
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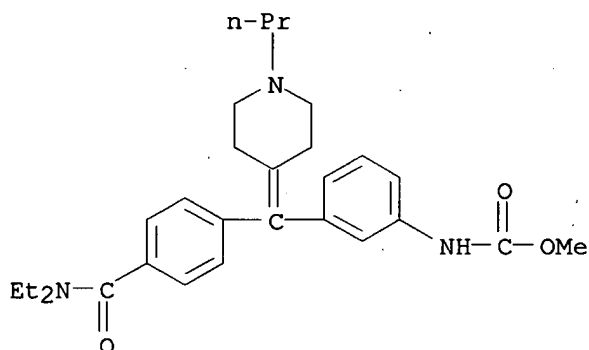
[3-[[4-[(Diethylamino)carbonyl]phenyl][1-(2-methoxyethyl)-4-piperidinyldene]methyl]phenyl]carbamic acid methyl ester

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of diarylmethylidenylpiperidines for the management of pain)

RN 859911-03-8 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-propyl-4-piperidinyldene)methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



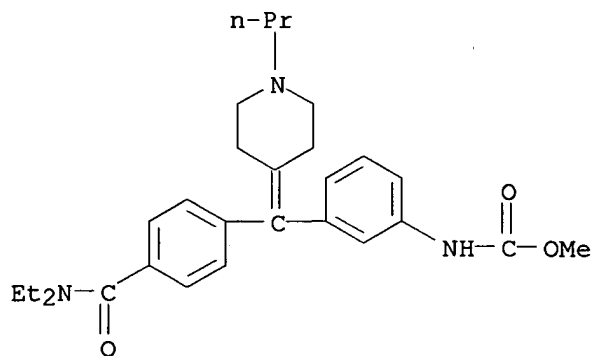
RN 859911-04-9 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-propyl-4-piperidinyldene)methyl]phenyl]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-03-8

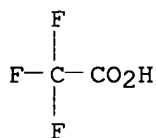
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CM 2

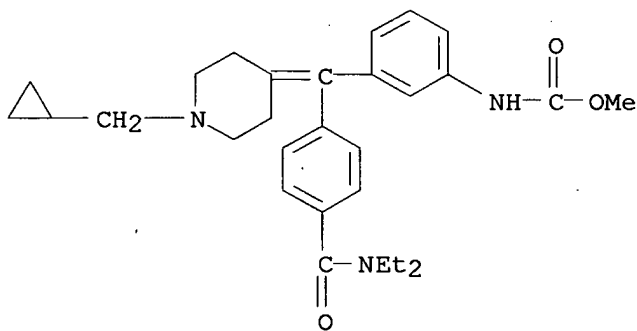
CRN 76-05-1

CMF C2 H F3 O2



RN 859911-05-0 HCAPLUS

CN Carbamic acid, [3-[[1-(cyclopropylmethyl)-4-piperidinylidene][4-[(diethylamino)carbonyl]phenyl]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 859911-06-1 HCAPLUS

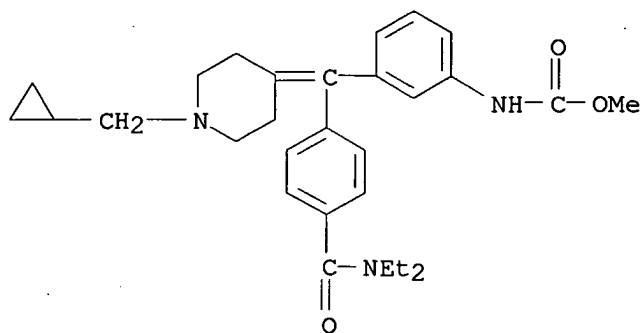
CN Carbamic acid, [3-[[1-(cyclopropylmethyl)-4-piperidinylidene][4-[(diethylamino)carbonyl]phenyl]methyl]phenyl]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-05-0

CMF C29 H37 N3 O3

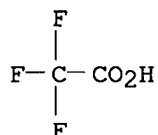
Updated Search



CM 2

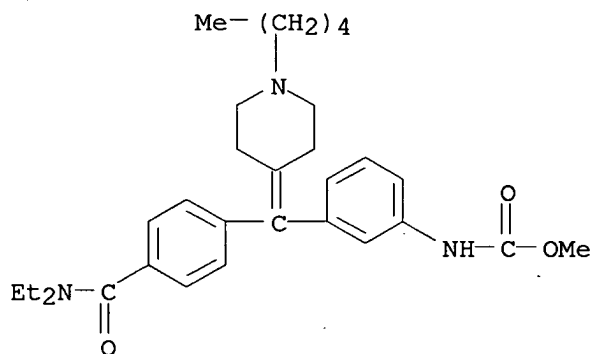
CRN 76-05-1

CMF C2 H F3 O2



RN 859911-07-2 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-pentyl-4-piperidinylidene)methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 859911-08-3 HCAPLUS

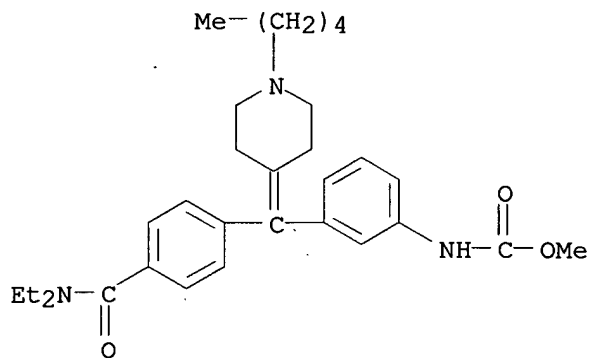
CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-pentyl-4-piperidinylidene)methyl]phenyl]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-07-2

CMF C30 H41 N3 O3

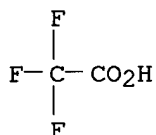
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CM 2

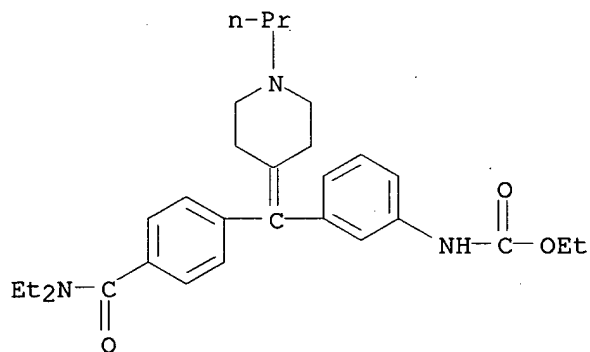
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CMF C2 H F3 O2



RN 859911-09-4 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-propyl-4-piperidinyldene)methyl]phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 859911-10-7 HCAPLUS

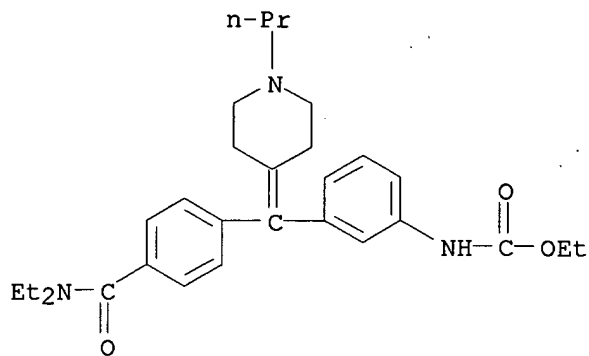
CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-propyl-4-piperidinyldene)methyl]phenyl]-, ethyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-09-4

CMF C29 H39 N3 O3

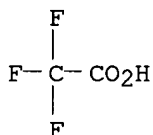
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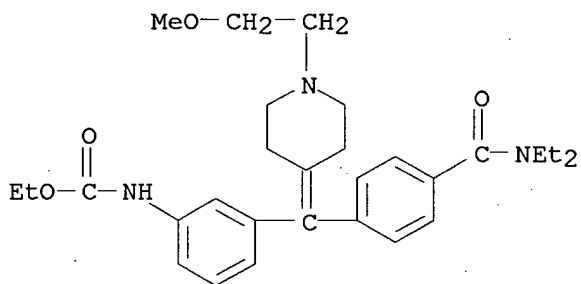
CRN 76-05-1

CMF C2 H F3 O2



RN 859911-11-8 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(2-methoxyethyl)-4-piperidinylidene]methyl]phenyl]-, ethyl ester (9CI) (CA INDEX NAME).



RN 859911-12-9 HCAPLUS

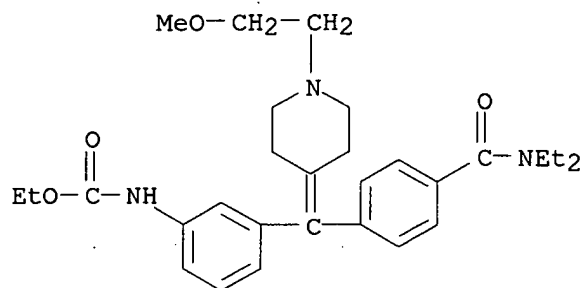
CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(2-methoxyethyl)-4-piperidinylidene]methyl]phenyl]-, ethyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-11-8

CMF C29 H39 N3 O4

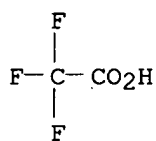
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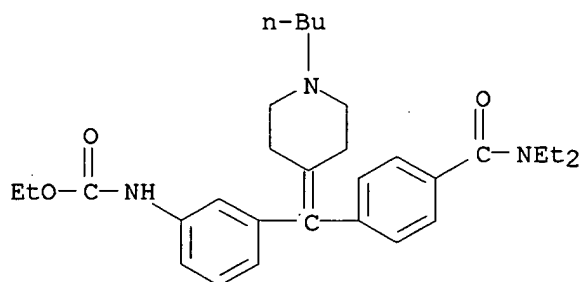
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CMF C2 H F3 O2



RN 859911-13-0 HCAPLUS

CN Carbamic acid, [3-[(1-butyl-4-piperidinylidene)[4-[(diethylamino)carbonyl]phenyl]methyl]phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 859911-14-1 HCAPLUS

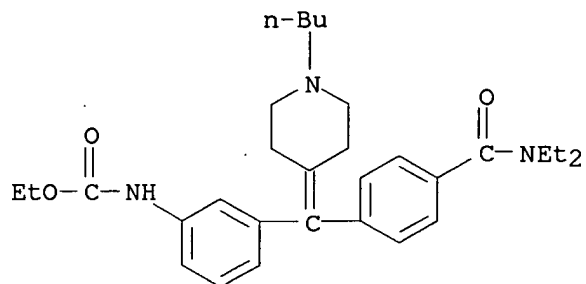
CN Carbamic acid, [3-[(1-butyl-4-piperidinylidene)[4-[(diethylamino)carbonyl]phenyl]methyl]phenyl]-, ethyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-13-0

CMF C30 H41 N3 O3

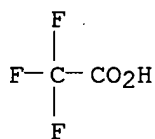
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CM 2

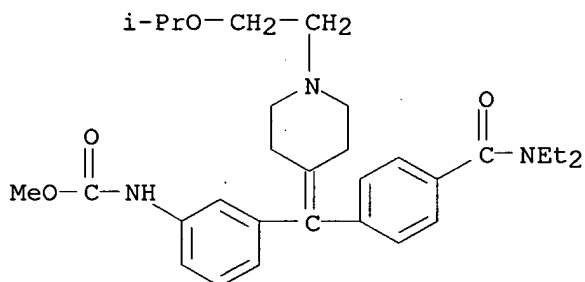
CRN 76-05-1

CMF C2 H F3 O2



RN 859911-15-2 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-[2-(1-methylethoxy)ethyl]-4-piperidinyldene]methyl]phenyl]-, methyl ester (9CI)
(CA INDEX NAME)



RN 859911-16-3 HCAPLUS

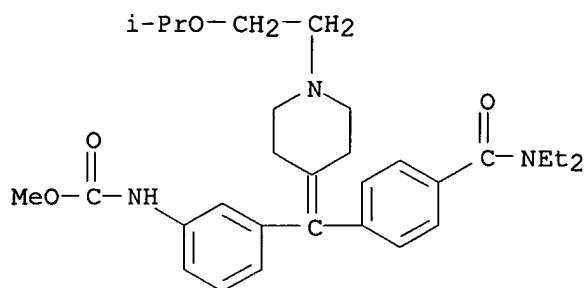
CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-[2-(1-methylethoxy)ethyl]-4-piperidinyldene]methyl]phenyl]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-15-2

CMF C30 H41 N3 O4

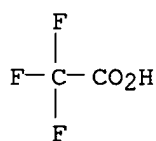
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CM 2

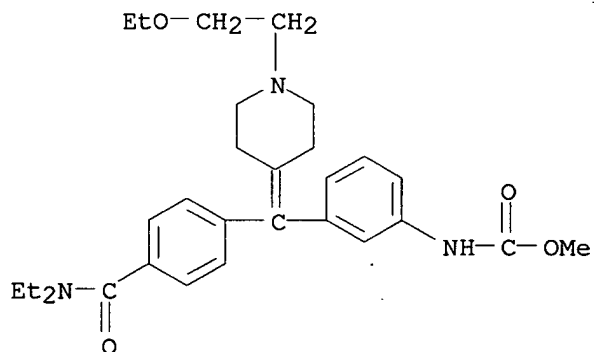
CRN 76-05-1

CMF C2 H F3 O2



RN 859911-17-4 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(2-ethoxyethyl)-4-piperidinyldiene]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 859911-18-5 HCAPLUS

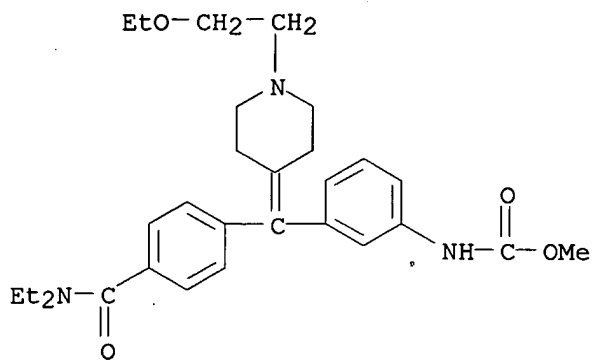
CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(2-ethoxyethyl)-4-piperidinyldiene]methyl]phenyl]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-17-4

CMF C29 H39 N3 O4

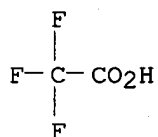
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CM 2

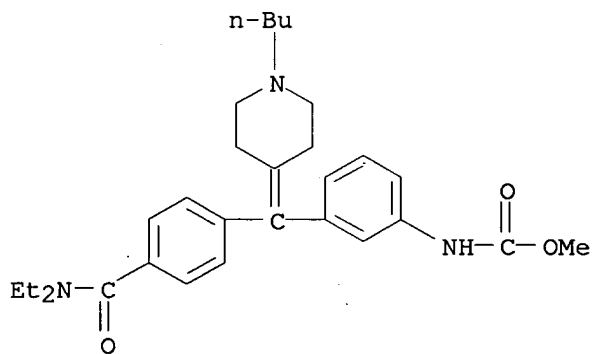
CRN 76-05-1

CMF C2 H F3 O2



RN 859911-19-6 HCAPLUS

CN Carbamic acid, [3-[(1-butyl-4-piperidinylidene)[4-[(diethylamino)carbonyl]phenyl]methyl]phenyl]-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

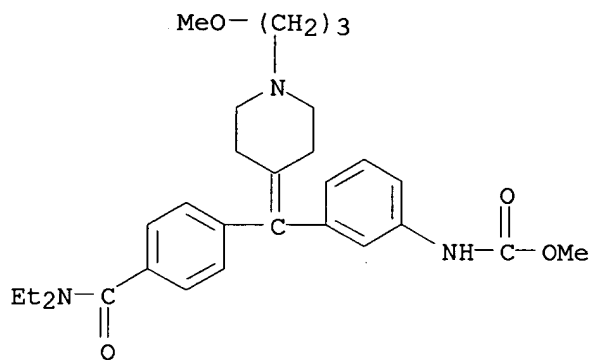


● HCl

RN 859911-20-9 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(3-methoxypropyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

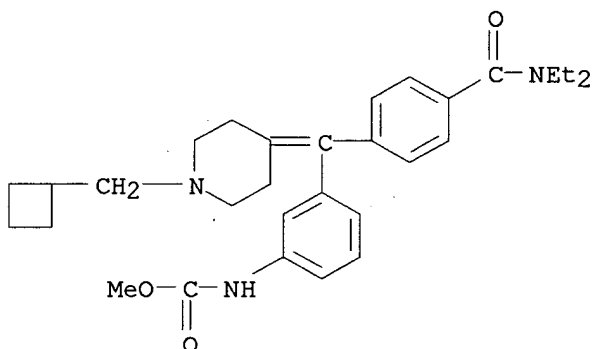
Updated Search



● HCl

RN 859911-21-0 HCAPLUS

CN Carbamic acid, [3-[[1-(cyclobutylmethyl)-4-piperidinylidene][4-[(diethylamino)carbonyl]phenyl]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 859911-22-1 HCAPLUS

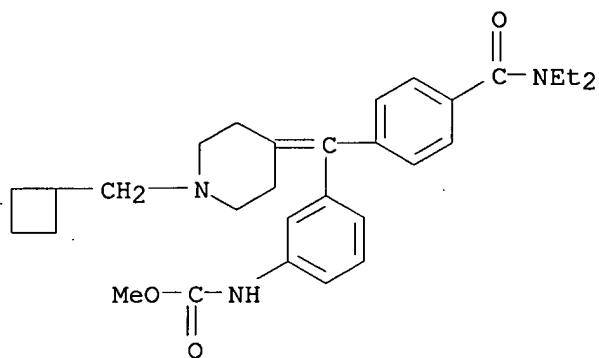
CN Carbamic acid, [3-[[1-(cyclobutylmethyl)-4-piperidinylidene][4-[(diethylamino)carbonyl]phenyl]methyl]phenyl]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1.

CRN 859911-21-0

CMF C30 H39 N3 O3

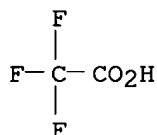
Updated Search



CM 2

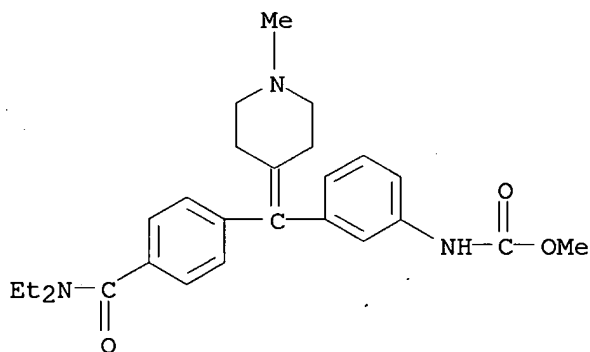
CRN 76-05-1

CMF C2 H F3 O2



RN 859911-23-2 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-methyl-4-piperidinyldene)methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 859911-24-3 HCAPLUS

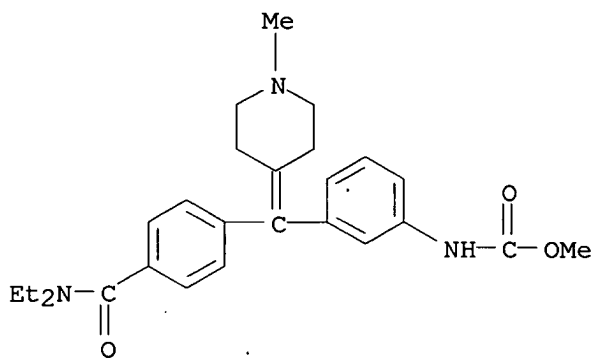
CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-methyl-4-piperidinyldene)methyl]phenyl]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-23-2

CMF C26 H33 N3 O3

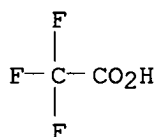
Updated Search



CM 2

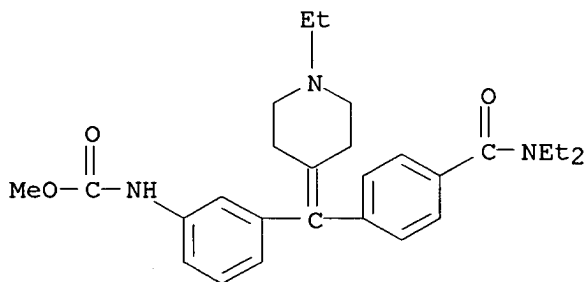
CRN 76-05-1

CMF C2 H F3 O2



RN 859911-25-4 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-ethyl-4-piperidinylidene)methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 859911-26-5 HCAPLUS

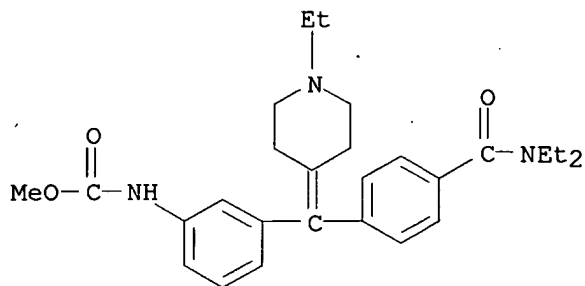
CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-ethyl-4-piperidinylidene)methyl]phenyl]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-25-4

CMF C27 H35 N3 O3

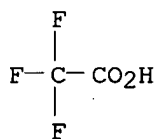
Updated Search



CM 2

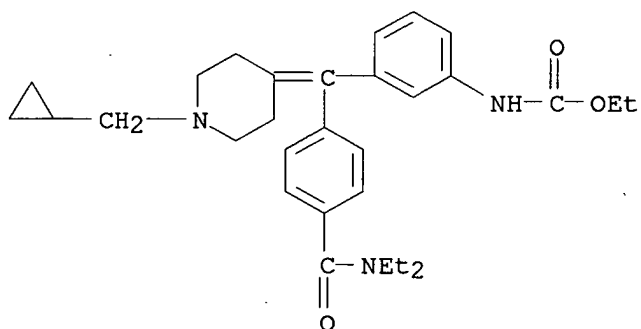
CRN 76-05-1

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RN 859911-27-6 HCAPLUS

CN Carbamic acid, [3-[[1-(cyclopropylmethyl)-4-piperidinylidene][4-[(diethylamino)carbonyl]phenyl]methyl]phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 859911-28-7 HCAPLUS

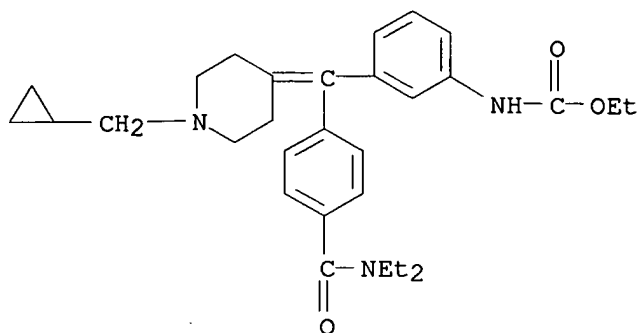
CN Carbamic acid, [3-[[1-(cyclopropylmethyl)-4-piperidinylidene][4-[(diethylamino)carbonyl]phenyl]methyl]phenyl]-, ethyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-27-6

CMF C30 H39 N3 O3

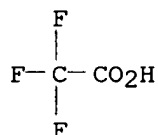
Updated Search



CM 2

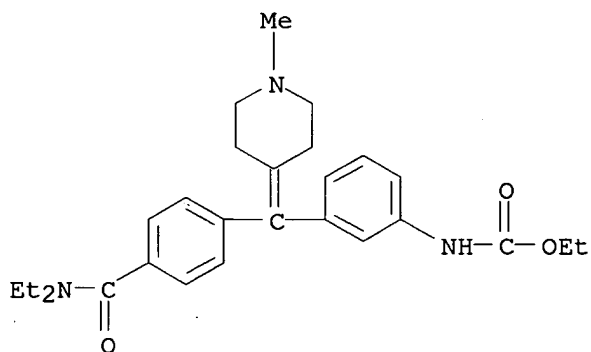
CRN 76-05-1

CMF C2 H F3 O2



RN 859911-29-8 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-methyl-4-piperidinyldene)methyl]phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 859911-30-1 HCAPLUS

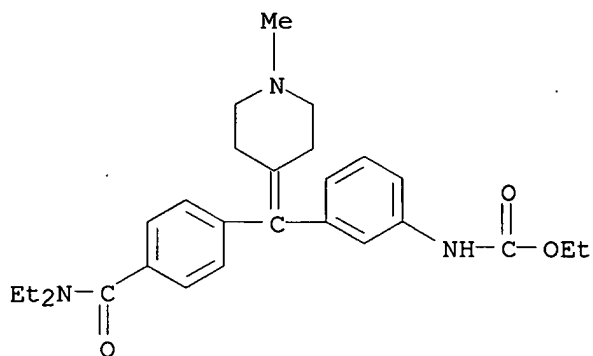
CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-methyl-4-piperidinyldene)methyl]phenyl]-, ethyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-29-8

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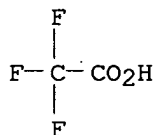
Updated Search



CM 2

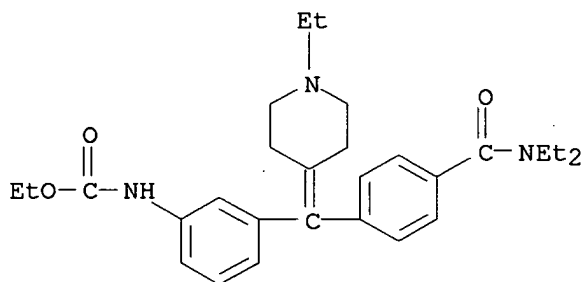
CRN 76-05-1

CMF C2 H F3 O2



RN 859911-31-2 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-ethyl-4-piperidinylidene)methyl]phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 859911-32-3 HCAPLUS

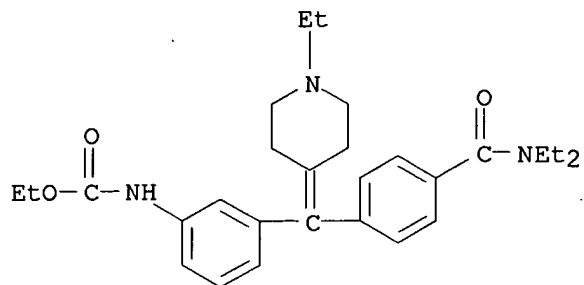
CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl](1-ethyl-4-piperidinylidene)methyl]phenyl]-, ethyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 859911-31-2

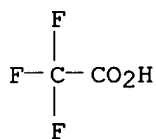
CMF C28 H37 N3 O3

Updated Search

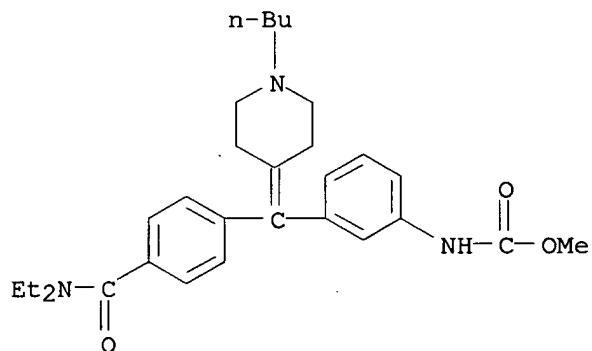


CM 2

CRN 76-05-1
CMF C2 H F3 O2

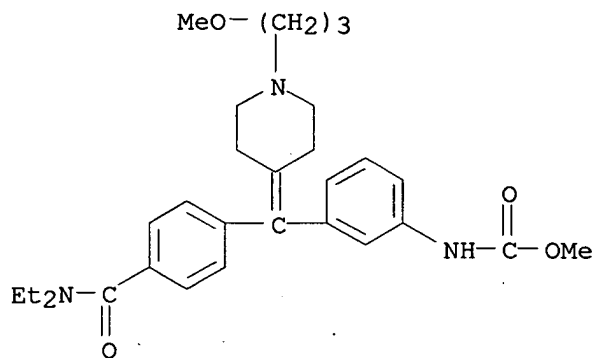


RN 859911-33-4 HCAPLUS
CN Carbamic acid, [3-[(1-butyl-4-piperidinylidene)[4-[(diethylamino)carbonyl]phenyl]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



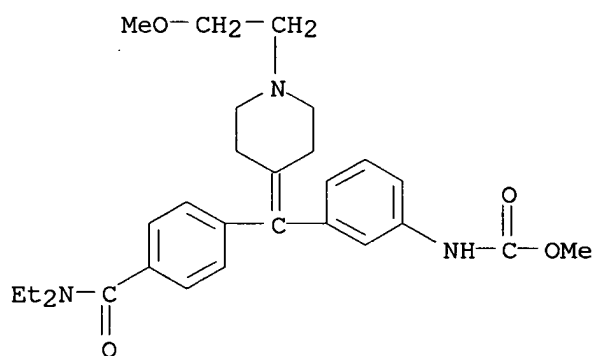
RN 859911-34-5 HCAPLUS
CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(3-methoxypropyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)

Updated Search



RN 859911-35-6 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(2-methoxyethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



IT 725229-84-5P, 4-[(3-Aminophenyl)[4-[(diethylamino)carbonyl]phenyl]methylene]-1-piperidinecarboxylic acid 1,1-dimethylethyl ester

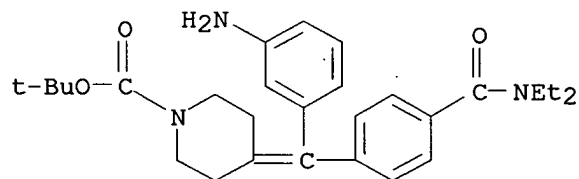
725229-85-6P 859911-37-8P 859911-38-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of diarylmethylidenylpiperidines for the management of pain)

RN 725229-84-5 HCAPLUS

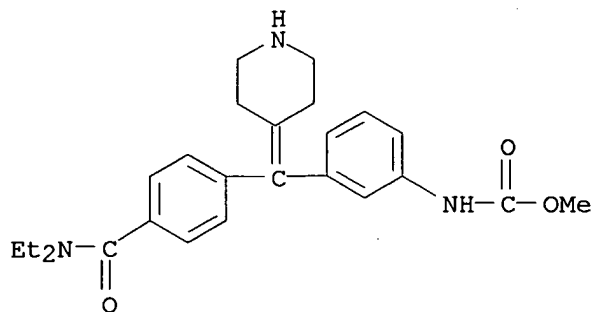
CN 1-Piperidinecarboxylic acid, 4-[(3-aminophenyl)[4-[(diethylamino)carbonyl]phenyl]methylene]-, 1,1-dimethylethyl ester (CA INDEX NAME)



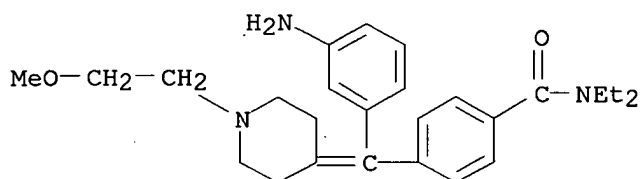
RN 725229-85-6 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinyldenemethyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)

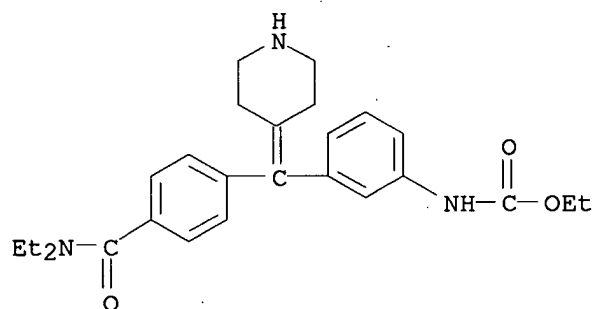
Updated Search



RN 859911-37-8 HCAPLUS
 CN Benzamide, 4-[(3-aminophenyl)[1-(2-methoxyethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 859911-38-9 HCAPLUS
 CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinyldenemethyl]phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



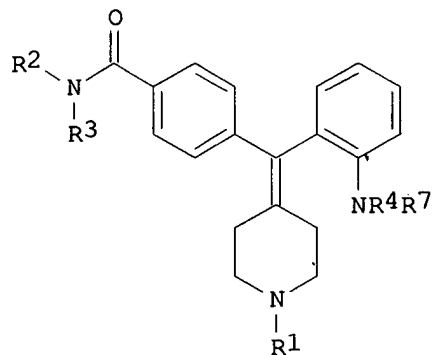
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:1016017 HCAPLUS
 DOCUMENT NUMBER: 142:6430
 TITLE: Preparation of diarylmethylidene piperidine derivatives as opioid δ receptor ligands for treating pain, anxiety and functional gastrointestinal disorders
 INVENTOR(S): Brown, William L.; Griffin, Andrew; Jin, Shujuan
 PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited
 SOURCE: PCT Int. Appl., 131 pp.
 CODEN: PIXXD2

Updated Search

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004101522	A1	20041125	WO 2004-GB2074	20040513
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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EP 1641757	A1	20060405	EP 2004-732665	20040513
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
BR 2004010347	A	20060530	BR 2004-10347	20040513
CN 1823040	A	20060823	CN 2004-80020330	20040513
JP 2007503457	T	20070222	JP 2006-530500	20040513
US 2007099957	A1	20070503	US 2005-555980	20051108
MX 2005PA12117	A	20060208	MX 2005-PA12117	20051110
NO 2005005998	A	20060213	NO 2005-5998	20051216
PRIORITY APPLN. INFO.:			SE 2003-1444	A 20030516
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			WO 2004-GB2074	W 20040513
OTHER SOURCE(S):		MARPAT 142:6430		
GI				



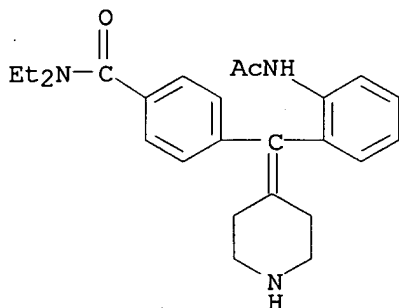
AB The title compds. [I; R1 = H, (un)substituted alkyl, aryl, etc.; R2-R4 = H, (un)substituted alkyl, cycloalkyl; R7 = H, OH, alkyl, etc.] which are useful in therapy, in particular in the management of pain, were prepared E.g., a multi-step synthesis of I [R1 = H; R2, R3 = Et; R4 = C(=O)Ph; R7 = H], starting from Me 4-(bromomethyl)benzoate, was given. The compds. I were found to be active toward human δ receptors. Generally, for most of the compds. I the IC₅₀ values are in the range of 0.48 nM to 17.9

nM. The pharmaceutical composition comprising the compound I is disclosed.
IT 798549-77-6P 798549-78-7P 798549-83-4P
798549-93-6P 798549-94-7P 798549-95-8P
798549-96-9P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of diarylmethylidene piperidine derivs. as opioid δ receptor ligands for treating pain, anxiety and functional gastrointestinal disorders)

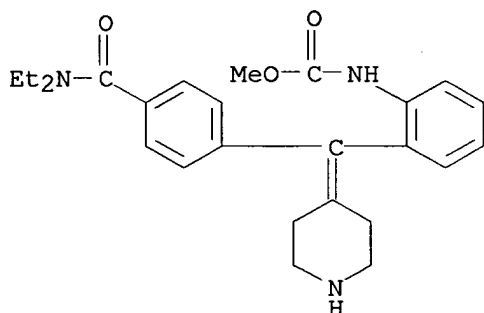
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CN Benzamide, 4-[[2-(acetylamino)phenyl]-4-piperidinyldenemethyl]-N,N-diethyl- (CA INDEX NAME)



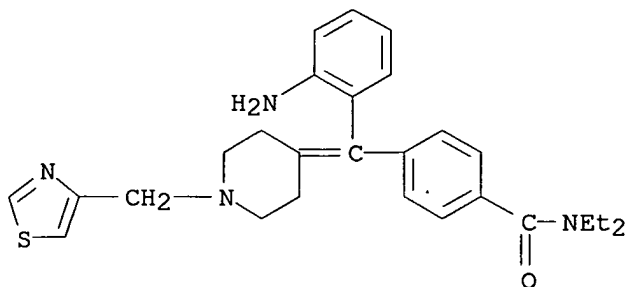
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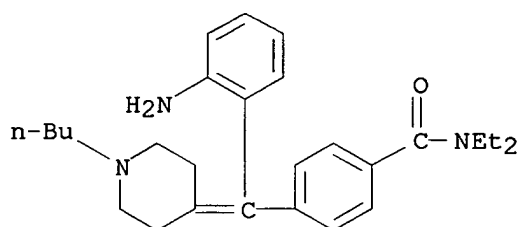
RN 798549-83-4 HCAPLUS

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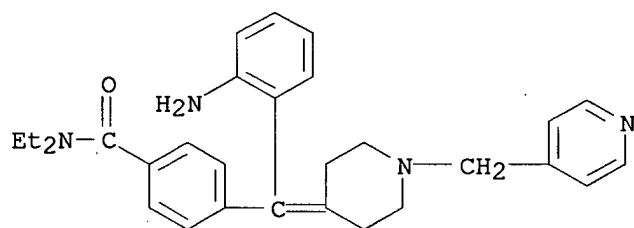
RN 798549-93-6 HCAPLUS

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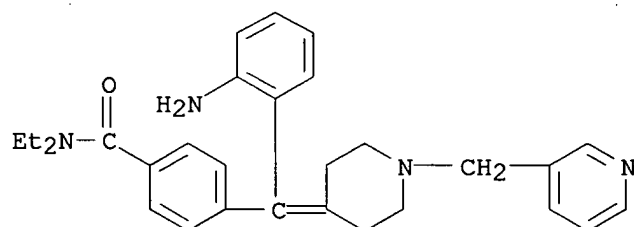
RN 798549-94-7 HCAPLUS

CN Benzamide, 4-[(2-aminophenyl)[1-(4-pyridinylmethyl)-4-piperidinylidene)methyl]-N,N-diethyl- (CA INDEX NAME)



RN 798549-95-8 HCAPLUS

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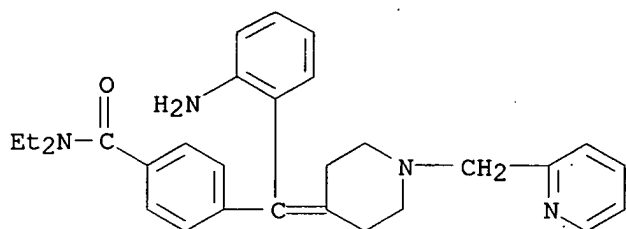


RN 798549-96-9 HCAPLUS

CN Benzamide, 4-[(2-aminophenyl)[1-(2-pyridinylmethyl)-4-

Updated Search

piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



IT 798549-16-3P 798549-17-4P 798549-18-5P
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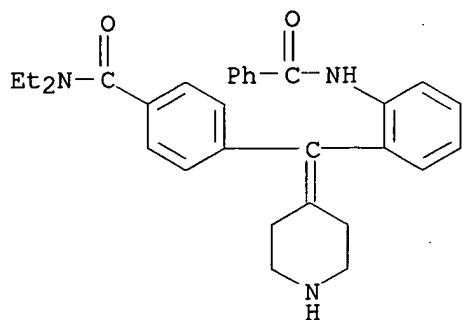
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of diarylmethylidene piperidine derivs. as opioid δ receptor ligands for treating pain, anxiety and functional gastrointestinal disorders)

RN 798549-16-3 HCAPLUS

CN Benzamide, 4-[[2-(benzoylamino)phenyl]-4-piperidinyldenemethyl]-N,N-diethyl- (CA INDEX NAME)

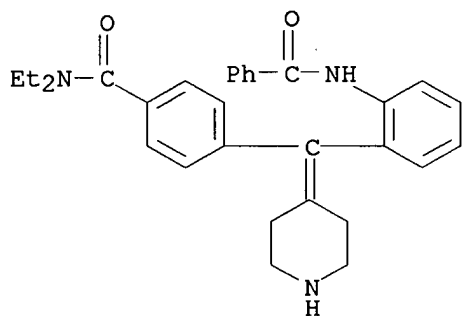
Updated Search



RN 798549-17-4 HCAPLUS
 CN Benzamide, 4-[[2-(benzoylamino)phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (5:6) (9CI) (CA INDEX NAME)

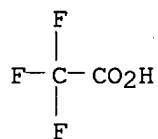
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CRN 798549-16-3
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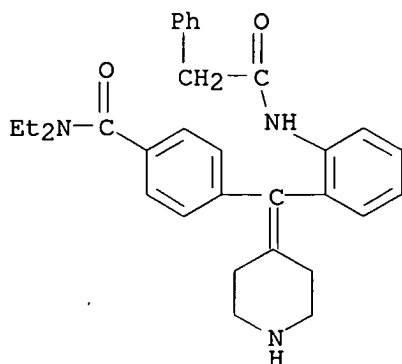
CM 2

CRN 76-05-1
 CMF C2 H F3 O2



RN 798549-18-5 HCAPLUS
 CN Benzeneacetamide, N-[2-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]- (CA INDEX NAME)

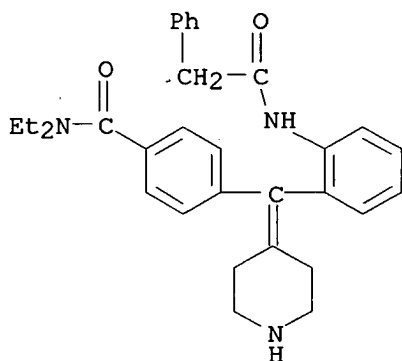
Updated Search



RN 798549-19-6 HCAPLUS
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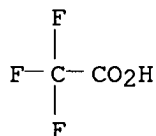
CM 1

CRN 798549-18-5
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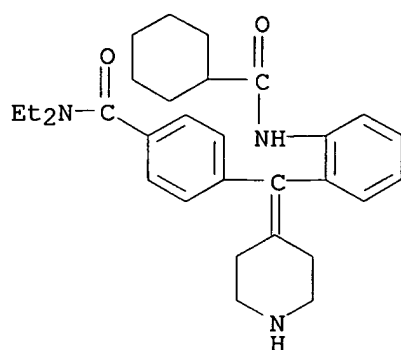
CM 2

CRN 76-05-1
 CMF C2 H F3 O2



RN 798549-21-0 HCAPLUS
 CN Benzamide, 4-[[2-[(cyclohexylcarbonyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl- (CA INDEX NAME)

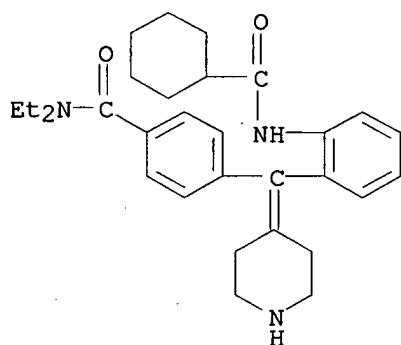
Updated Search



RN 798549-22-1 HCAPLUS
 CN Benzamide, 4-[[2-[(cyclohexylcarbonyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (5:8) (9CI) (CA INDEX NAME)

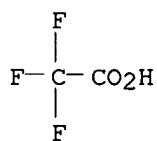
CM 1

CRN 798549-21-0
 CMF C30 H39 N3 O2



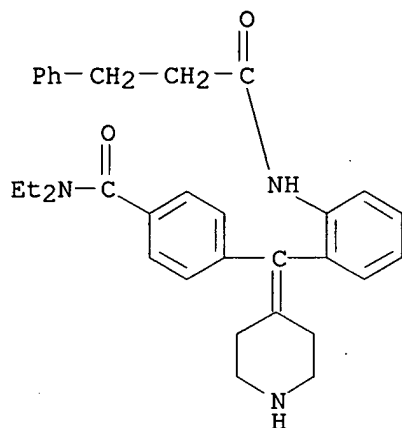
CM 2

CRN 76-05-1
 CMF C2 H F3 O2



RN 798549-23-2 HCAPLUS
 CN Benzenepropanamide, N-[2-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]- (CA INDEX NAME)

Updated Search



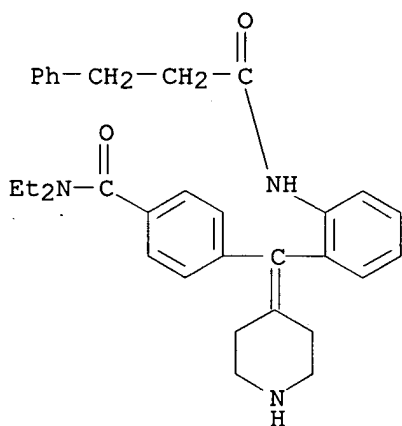
RN 798549-24-3 HCAPLUS

CN Benzenepropanamide, N-[2-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]-, trifluoroacetate (5:7) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-23-2

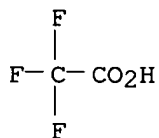
CMF C32 H37 N3 O2



CM 2

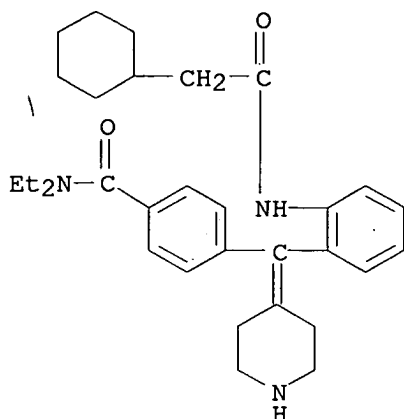
CRN 76-05-1

CMF C2 H F3 O2



Updated Search

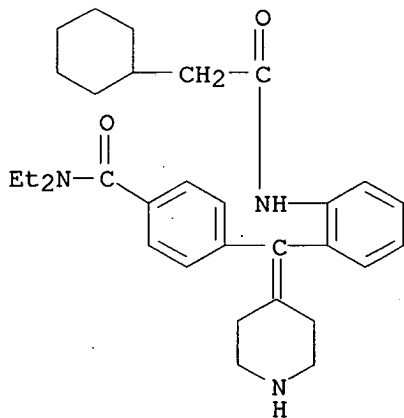
RN 798549-25-4 HCAPLUS
CN Benzamide, 4-[[2-[(cyclohexylacetyl)amino]phenyl]-4-piperidinyldenemethyl]-N,N-diethyl- (9CI) (CA INDEX NAME)



RN 798549-26-5 HCAPLUS
CN Benzamide, 4-[[2-[(cyclohexylacetyl)amino]phenyl]-4-piperidinyldenemethyl]-N,N-diethyl-, trifluoroacetate (5:8) (9CI) (CA INDEX NAME)

CM 1

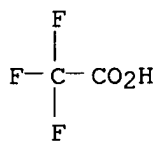
CRN 798549-25-4
CMF C31 H41 N3 O2



CM 2

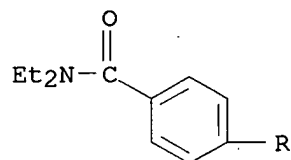
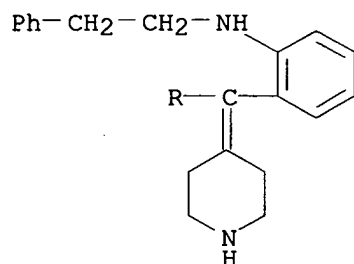
CRN 76-05-1
CMF C2 H F3 O2

Updated Search



RN 798549-27-6 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[(2-phenylethyl)amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



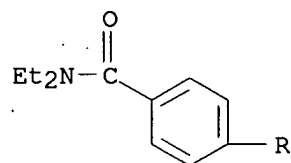
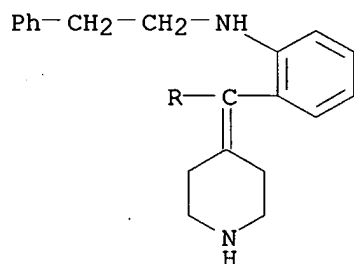
RN 798549-28-7 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[(2-phenylethyl)amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (5:6) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-27-6

CMF C31 H37 N3 O

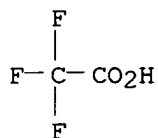


Updated Search

CM 2

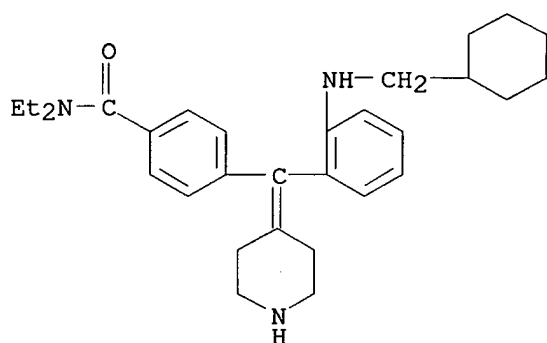
CRN 76-05-1

CMF C2 H F3 O2



RN 798549-29-8 HCAPLUS

CN Benzamide, 4-[[2-[(cyclohexylmethyl)amino]phenyl]-4-piperidinyldenemethyl]-N,N-diethyl- (CA INDEX NAME)



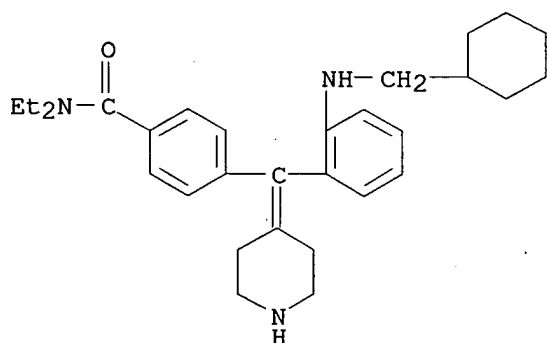
RN 798549-30-1 HCAPLUS

CN Benzamide, 4-[[2-[(cyclohexylmethyl)amino]phenyl]-4-piperidinyldenemethyl]-N,N-diethyl-, trifluoroacetate (5:7) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-29-8

CMF C30 H41 N3 O

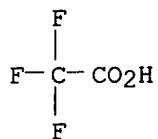


Updated Search

CM 2

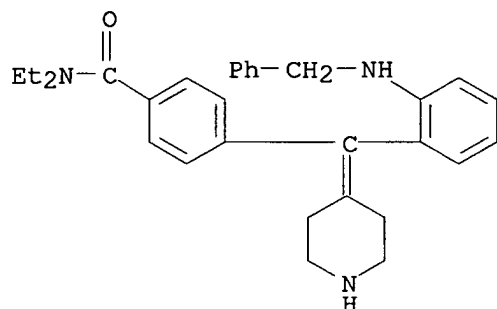
CRN 76-05-1

CMF C2 H F3 O2



RN 798549-31-2 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[(phenylmethyl)amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



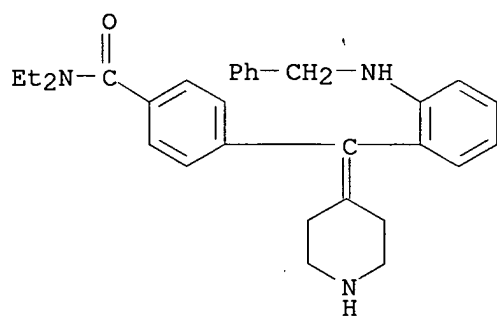
RN 798549-32-3 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[(phenylmethyl)amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-31-2

CMF C30 H35 N3 O

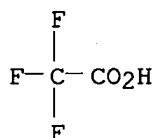


CM 2

CRN 76-05-1

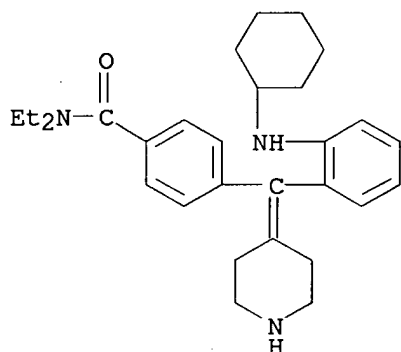
CMF C2 H F3 O2

Updated Search



RN 798549-33-4 HCAPLUS

CN Benzamide, 4-[[2-(cyclohexylamino)phenyl]-4-piperidinylidenemethyl]-N,N-diethyl- (CA INDEX NAME)



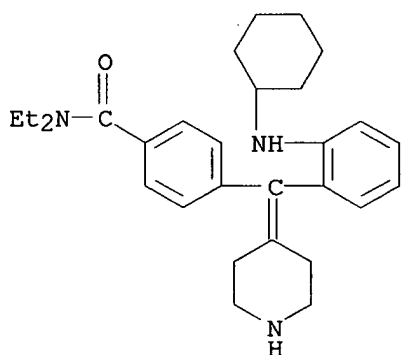
RN 798549-34-5 HCAPLUS

CN Benzamide, 4-[[[2-(cyclohexylamino)phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (5:9) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-33-4

CMF C29 H39 N3 O

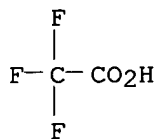


CM 2

CRN 76-05-1

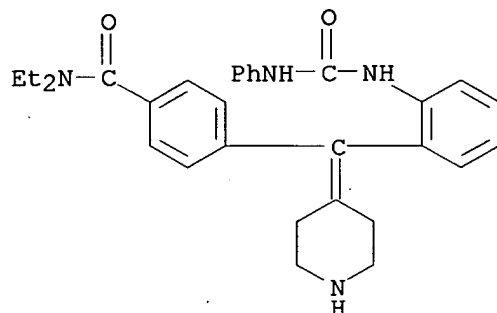
CMF C2 H F3 O2

Updated Search



RN 798549-35-6 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[[[(phenylamino)carbonyl]amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



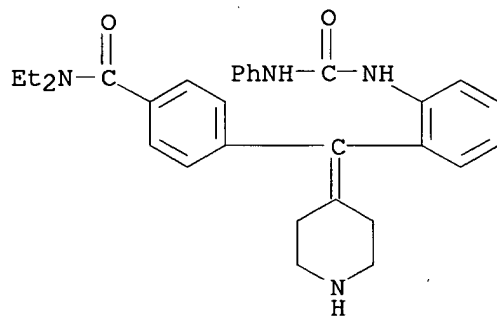
RN 798549-36-7 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[[[(phenylamino)carbonyl]amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (10:19) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-35-6

CMF C30 H34 N4 O2

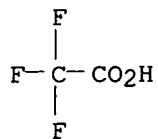


CM 2

CRN 76-05-1

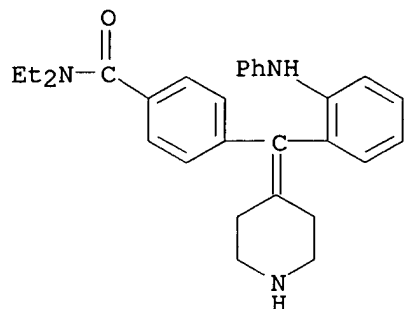
CMF C2 H F3 O2

Updated Search



RN 798549-37-8 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-(phenylamino)phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



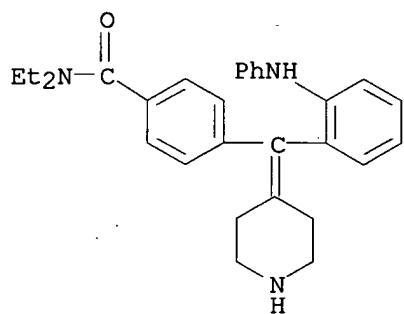
RN 798549-38-9 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-(phenylamino)phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (10:11) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-37-8

CMF C29 H33 N3 O

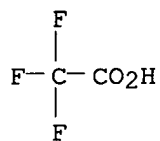


CM 2

CRN 76-05-1

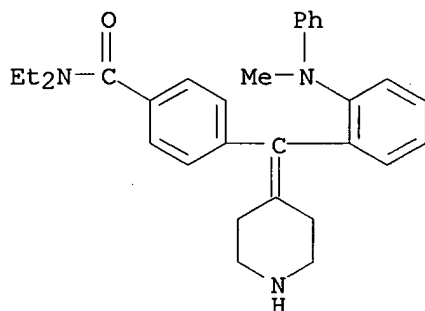
CMF C2 H F3 O2

Updated Search



RN 798549-39-0 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-(methylphenylamino)phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



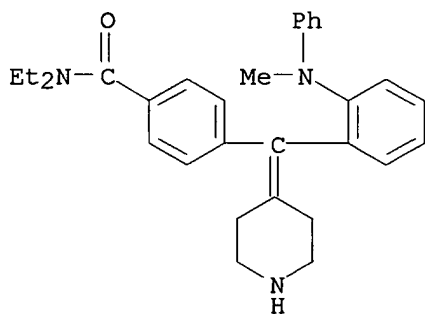
RN 798549-40-3 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-(methylphenylamino)phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 798549-39-0

CMF C30 H35 N3 O

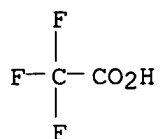


CM 2

CRN 76-05-1

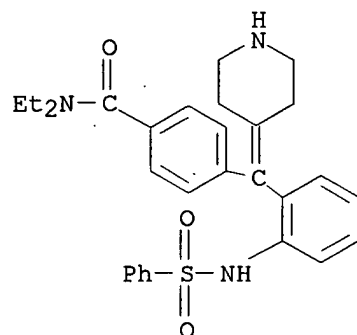
CMF C2 H F3 O2

Updated Search



RN 798549-41-4 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[(phenylsulfonyl)amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



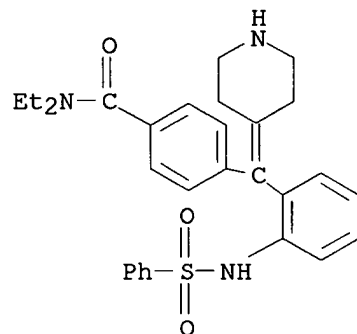
RN 798549-42-5 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[(phenylsulfonyl)amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (10:11) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-41-4

CMF C29 H33 N3 O3 S

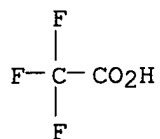


CM 2

CRN 76-05-1

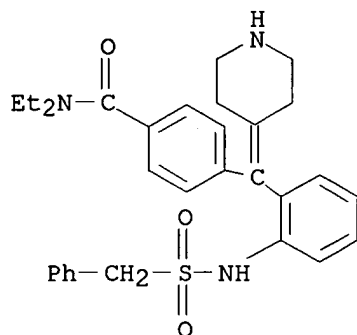
CMF C2 H F3 O2

Updated Search



RN 798549-43-6 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[[(phenylmethyl) sulfonyl] amino] phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



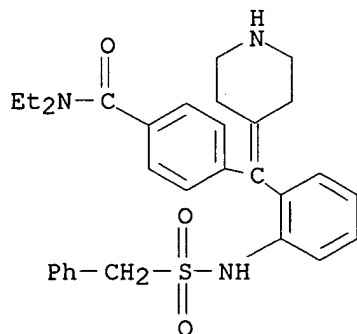
RN 798549-44-7 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[[(phenylmethyl) sulfonyl] amino] phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (10:11) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-43-6

CMF C30 H35 N3 O3 S

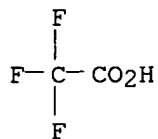


CM 2

CRN 76-05-1

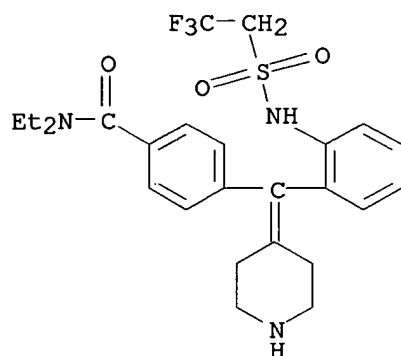
CMF C2 H F3 O2

Updated Search



RN 798549-45-8 HCAPLUS

CN Benzamide, N,N-diethyl-4-[4-piperidinylidene[2-[[(2,2,2-trifluoroethyl)sulfonyl]amino]phenyl]methyl]- (CA INDEX NAME)



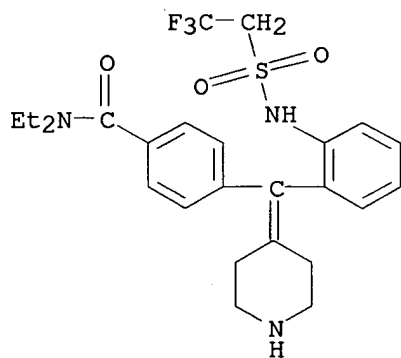
RN 798549-46-9 HCAPLUS

CN Benzamide, N,N-diethyl-4-[4-piperidinylidene[2-[[(2,2,2-trifluoroethyl)sulfonyl]amino]phenyl]methyl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-45-8

CMF C25 H30 F3 N3 O3 S

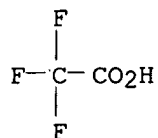


CM 2

CRN 76-05-1

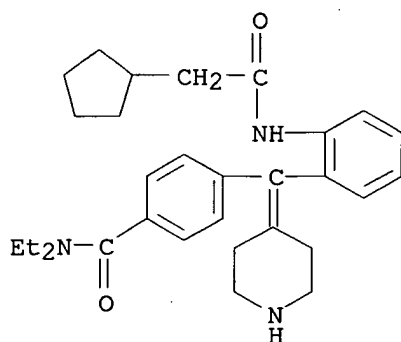
CMF C2 H F3 O2

Updated Search



RN 798549-47-0 HCAPLUS

CN Benzamide, 4-[[2-[(cyclopentylacetyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl- (9CI) (CA INDEX NAME)



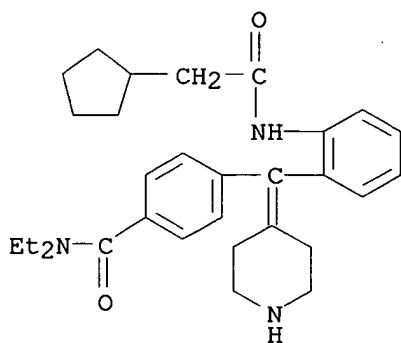
RN 798549-48-1 HCAPLUS

CN Benzamide, 4-[[2-[(cyclopentylacetyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (10:11) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-47-0

CMF C30 H39 N3 O2

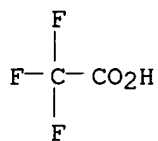


CM 2

CRN 76-05-1

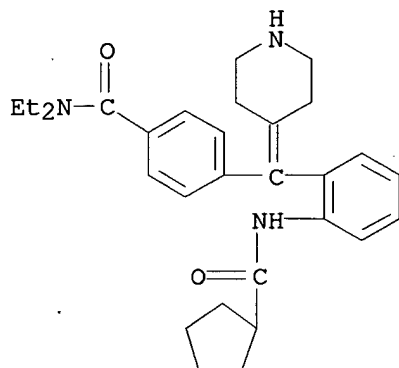
CMF C2 H F3 O2

Updated Search



RN 798549-49-2 HCAPLUS

CN Benzamide, 4-[[2-[(cyclopentylcarbonyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl- (CA INDEX NAME)



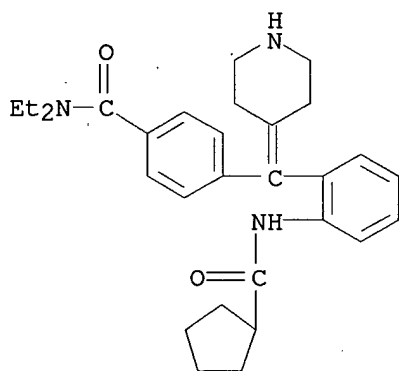
RN 798549-50-5 HCAPLUS

CN Benzamide, 4-[[2-[(cyclopentylcarbonyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (5:8) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-49-2

CMF C29 H37 N3 O2

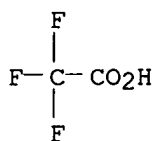


CM 2

CRN 76-05-1

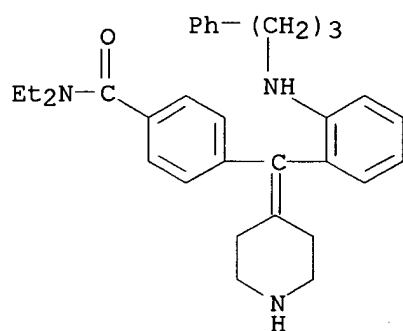
CMF C2 H F3 O2

Updated Search



RN 798549-51-6 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[(3-phenylpropyl)amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



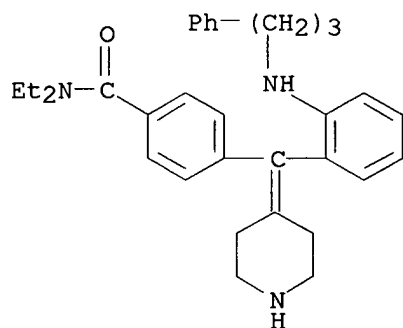
RN 798549-52-7 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[(3-phenylpropyl)amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (5:9) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-51-6

CMF C32 H39 N3 O

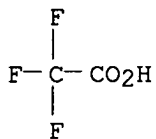


CM 2

CRN 76-05-1

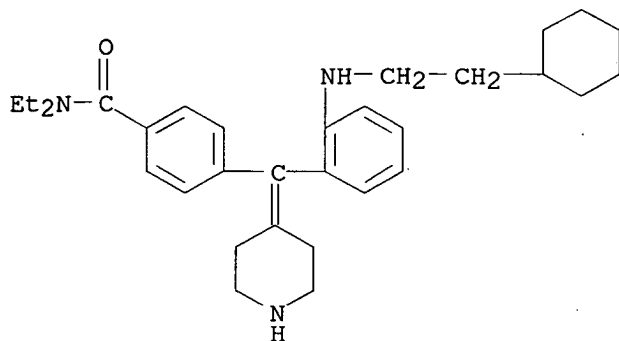
CMF C2 H F3 O2

Updated Search



RN 798549-53-8 HCAPLUS

CN Benzamide, 4-[[2-[(2-cyclohexylethyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl- (CA INDEX NAME)



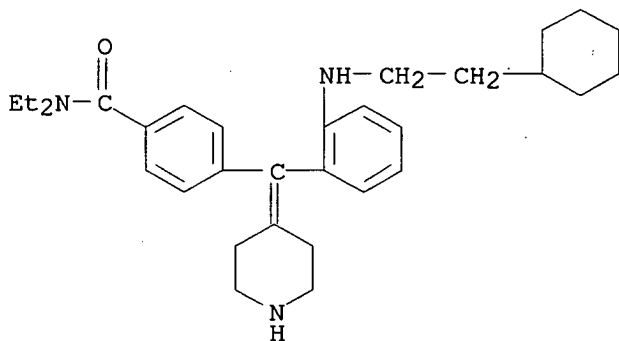
RN 798549-54-9 HCAPLUS

CN Benzamide, 4-[[2-[(2-cyclohexylethyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (10:13) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-53-8

CMF C31 H43 N3 O

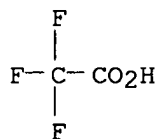


CM 2

CRN 76-05-1

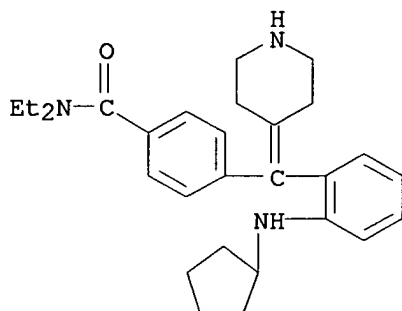
CMF C2 H F3 O2

Updated Search



RN 798549-55-0 HCAPLUS

CN Benzamide, 4-[[2-(cyclopentylamino)phenyl]-4-piperidinyldenemethyl]-N,N-diethyl- (CA INDEX NAME)



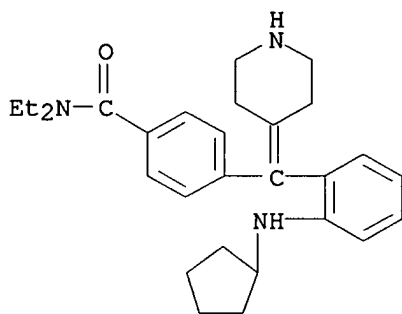
RN 798549-56-1 HCAPLUS

CN Benzamide, 4-[[2-(cyclopentylamino)phenyl]-4-piperidinyldenemethyl]-N,N-diethyl-, trifluoroacetate (5:11) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-55-0

CMF C28 H37 N3 O

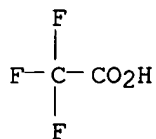


CM 2

CRN 76-05-1

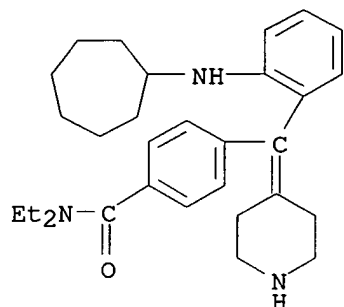
CMF C2 H F3 O2

Updated Search



RN 798549-57-2 HCAPLUS

CN Benzamide, 4-[[2-(cycloheptylamino)phenyl]-4-piperidinylidenemethyl]-N,N-diethyl- (CA INDEX NAME)



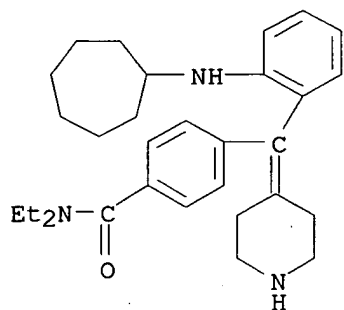
RN 798549-58-3 HCAPLUS

CN Benzamide, 4-[[2-(cycloheptylamino)phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (10:23) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-57-2

CMF C30 H41 N3 O

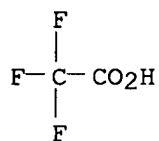


CM 2

CRN 76-05-1

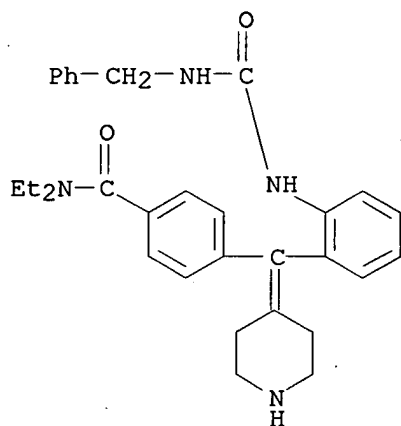
CMF C2 H F3 O2

Updated Search



RN 798549-59-4 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[[[(phenylmethyl)amino]carbonyl]amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



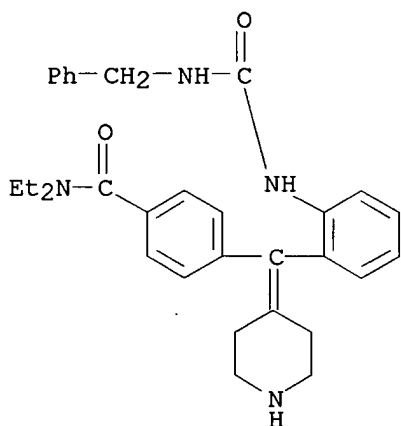
RN 798549-60-7 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[[[(phenylmethyl)amino]carbonyl]amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (5:6) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-59-4

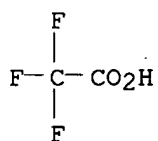
CMF C31 H36 N4 O2



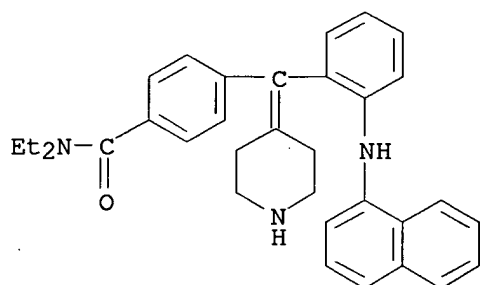
CM 2

Updated Search

CRN 76-05-1
CMF C2 H F3 O2



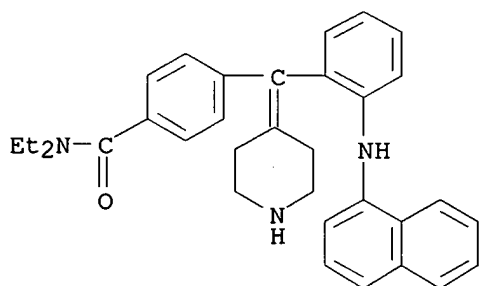
RN 798549-61-8 HCAPLUS
CN Benzamide, N,N-diethyl-4-[[2-(1-naphthalenylamino)phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



RN 798549-62-9 HCAPLUS
CN Benzamide, N,N-diethyl-4-[[2-(1-naphthalenylamino)phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (5:7) (9CI) (CA INDEX NAME)

CM 1

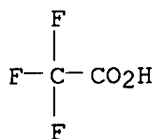
CRN 798549-61-8
CMF C33 H35 N3 O



CM 2

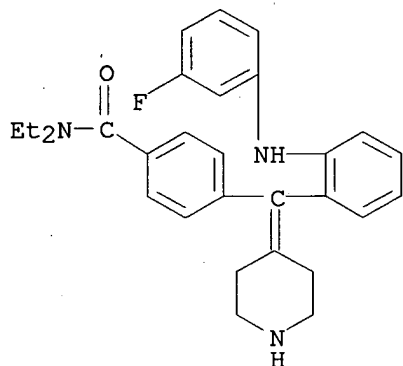
CRN 76-05-1
CMF C2 H F3 O2

Updated Search



RN 798549-63-0 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[(3-fluorophenyl)amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



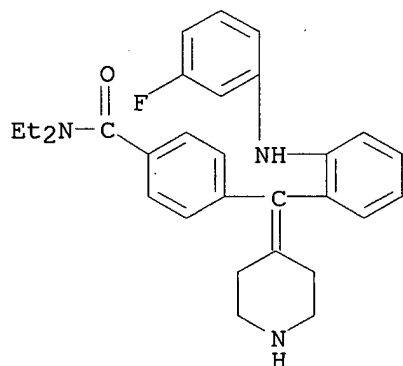
RN 798549-64-1 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[(3-fluorophenyl)amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (5:6) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-63-0

CMF C29 H32 F N3 O

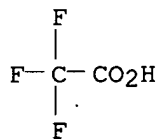


CM 2

CRN 76-05-1

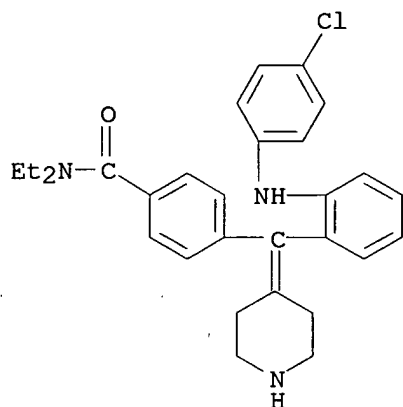
CMF C2 H F3 O2

Updated Search



RN 798549-65-2 HCAPLUS

CN Benzamide, 4-[[2-[(4-chlorophenyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl- (CA INDEX NAME)



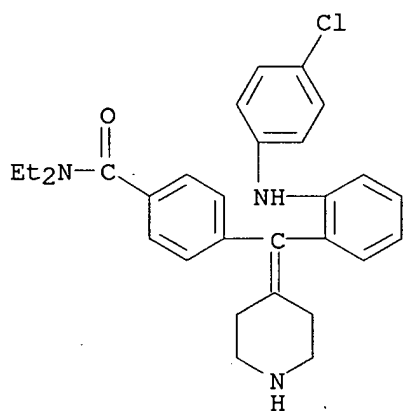
RN 798549-66-3 HCAPLUS

CN Benzamide, 4-[[2-[(4-chlorophenyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (5:7) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-65-2

CMF C29 H32 Cl N3 O

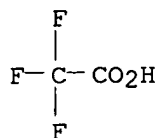


CM 2

CRN 76-05-1

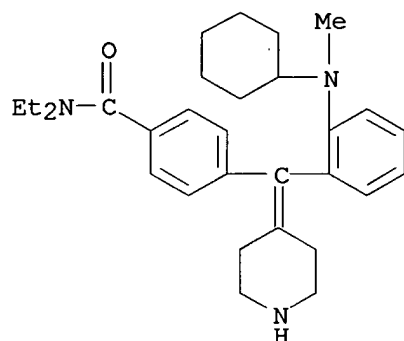
CMF C2 H F3 O2

Updated Search



RN 798549-67-4 HCAPLUS

CN Benzamide, 4-[[2-(cyclohexylmethylamino)phenyl]-4-piperidinylidenemethyl]-N,N-diethyl- (CA INDEX NAME)



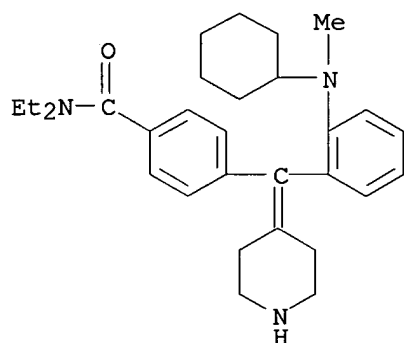
RN 798549-68-5 HCAPLUS

CN Benzamide, 4-[[2-(cyclohexylmethylamino)phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (2:5) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-67-4

CMF C30 H41 N3 O

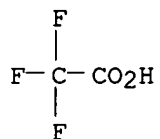


CM 2

CRN 76-05-1

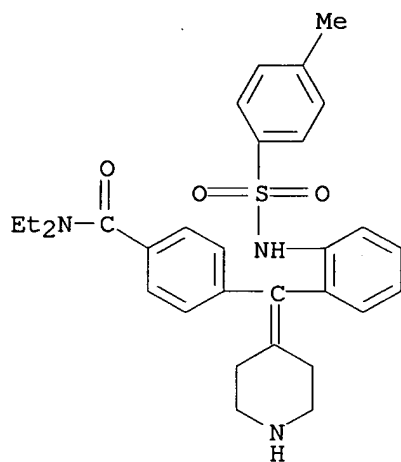
CMF C2 H F3 O2

Updated Search



RN 798549-69-6 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[[[4-methylphenyl)sulfonyl]amino]phenyl]-4-piperidinylidenemethyl]- (CA INDEX NAME)



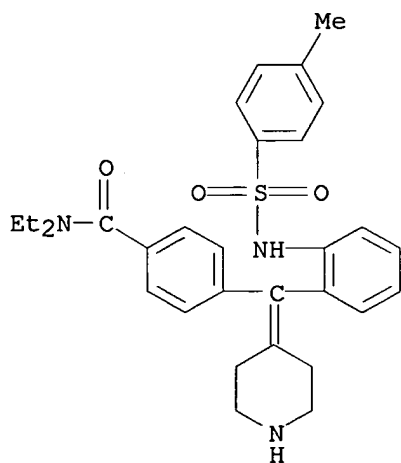
RN 798549-70-9 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[[[4-methylphenyl)sulfonyl]amino]phenyl]-4-piperidinylidenemethyl]-, trifluoroacetate (5:7) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-69-6

CMF C30 H35 N3 O3 S

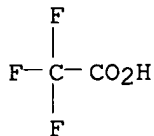


Updated Search

CM 2

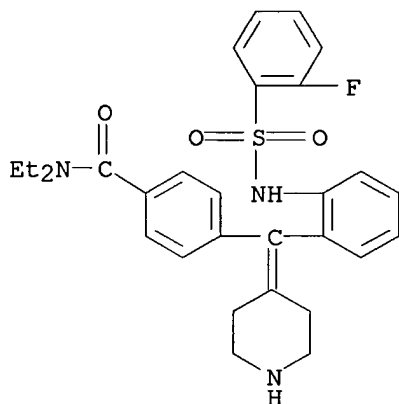
CRN 76-05-1

CMF C2 H F3 O2



RN 798549-71-0 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[[[(2-fluorophenyl)sulfonyl]amino]phenyl]-4-piperidinylidenemethyl]- (CA INDEX NAME)



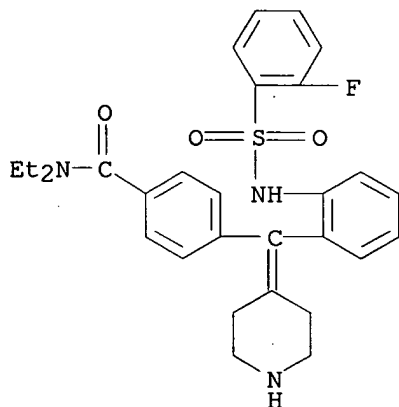
RN 798549-72-1 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-[[[(2-fluorophenyl)sulfonyl]amino]phenyl]-4-piperidinylidenemethyl]-, trifluoroacetate (5:6) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-71-0

CMF C29 H32 F N3 O3 S

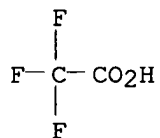


Updated Search

CM 2

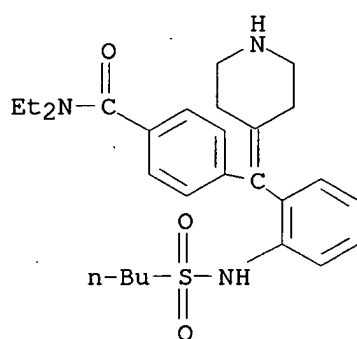
CRN 76-05-1

CMF C2 H F3 O2



RN 798549-73-2 HCAPLUS

CN Benzamide, 4-[[2-[(butylsulfonyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl- (CA INDEX NAME)



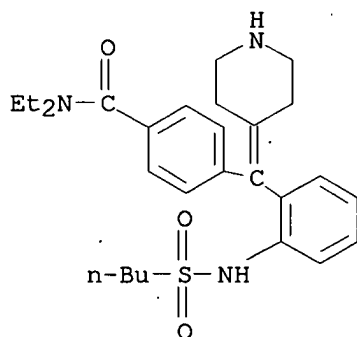
RN 798549-74-3 HCAPLUS

CN Benzamide, 4-[[2-[(butylsulfonyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (5:7) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-73-2

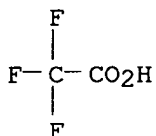
CMF C27 H37 N3 O3 S



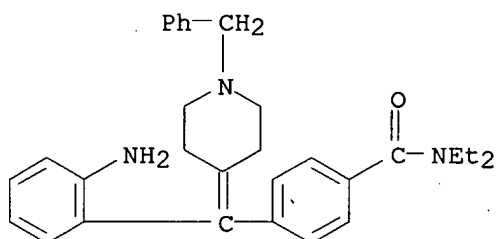
CM 2

Updated Search

CRN 76-05-1
CMF C2 H F3 O2



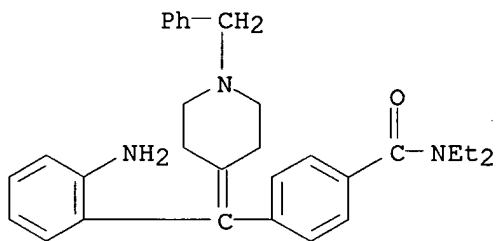
RN 798549-75-4 HCAPLUS
CN Benzamide, 4-[(2-aminophenyl)[1-(phenylmethyl)-4-piperidinylidene]methyl]-
N,N-diethyl- (CA INDEX NAME)



RN 798549-76-5 HCAPLUS
CN Benzamide, 4-[(2-aminophenyl)[1-(phenylmethyl)-4-piperidinylidene]methyl]-
N,N-diethyl-, trifluoroacetate (2:3) (9CI) (CA INDEX NAME)

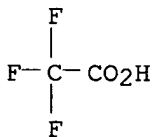
CM 1

CRN 798549-75-4
CMF C30 H35 N3 O



CM 2

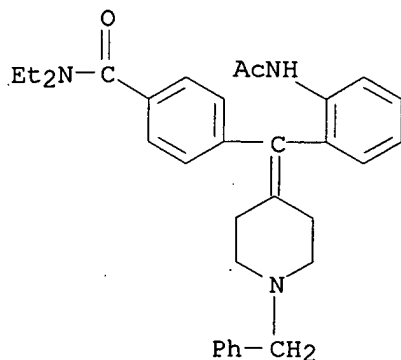
CRN 76-05-1
CMF C2 H F3 O2



Updated Search

RN 798549-79-8 HCAPLUS

CN Benzamide, 4-[[2-(acetylamino)phenyl][1-(phenylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



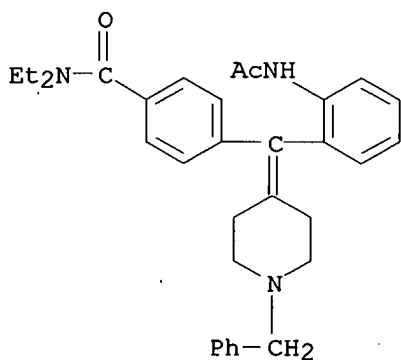
RN 798549-80-1 HCAPLUS

CN Benzamide, 4-[[2-(acetylamino)phenyl][1-(phenylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, trifluoroacetate (10:17) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-79-8

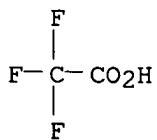
CMF C32 H37 N3 O2



CM 2

CRN 76-05-1

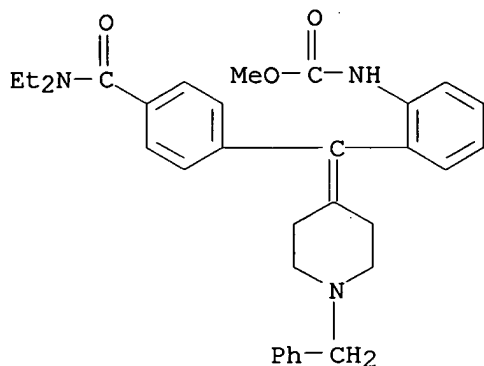
CMF C2 H F3 O2



Updated Search

RN 798549-81-2 HCAPLUS

CN Carbamic acid, [2-[[4-[(diethylamino)carbonyl]phenyl][1-(phenylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



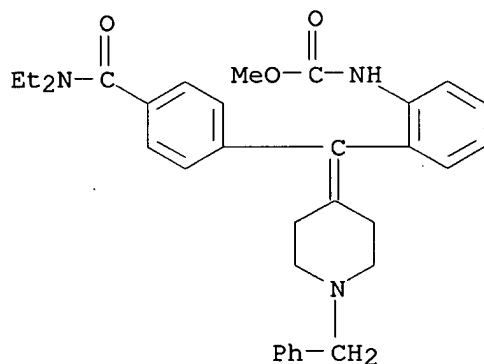
RN 798549-82-3 HCAPLUS

CN Carbamic acid, [2-[[4-[(diethylamino)carbonyl]phenyl][1-(phenylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester, trifluoroacetate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-81-2

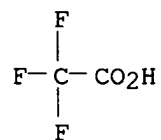
CMF C32 H37 N3 O3



CM 2

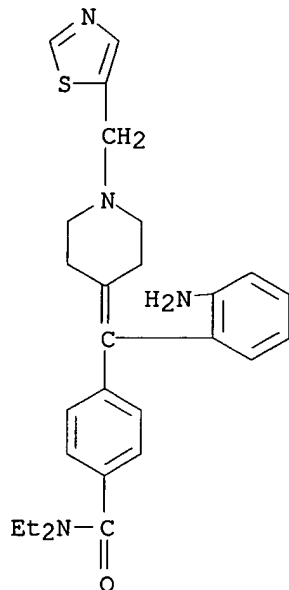
CRN 76-05-1

CMF C2 H F3 O2

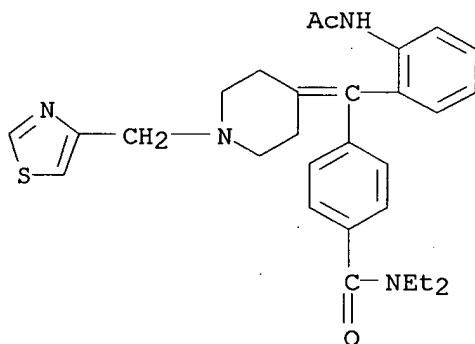


Updated Search

RN 798549-84-5 HCAPLUS
 CN Benzamide, 4-[(2-aminophenyl)[1-(5-thiazolylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 798549-85-6 HCAPLUS
 CN Benzamide, 4-[[2-(acetylamino)phenyl][1-(4-thiazolylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)

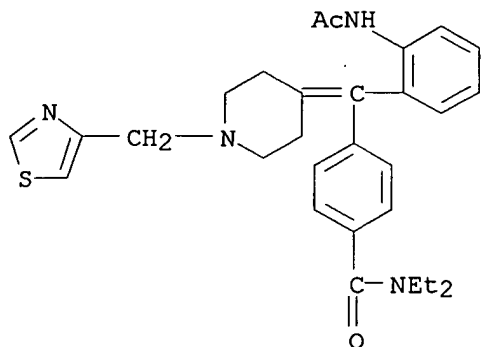


RN 798549-86-7 HCAPLUS
 CN Benzamide, 4-[[2-(acetylamino)phenyl][1-(4-thiazolylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, trifluoroacetate (5:8) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-85-6
 CMF C29 H34 N4 O2 S

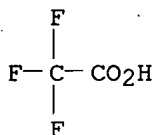
Updated Search



CM 2

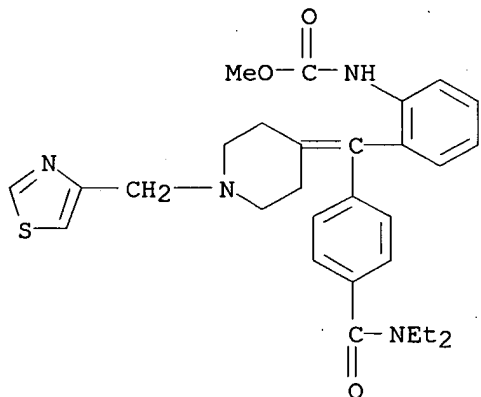
CRN 76-05-1

CMF C2 H F3 O2



RN 798549-87-8 HCAPLUS

CN Carbamic acid, [2-[[4-[(diethylamino)carbonyl]phenyl][1-(4-thiazolylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester (9CI)
(CA INDEX NAME)



RN 798549-88-9 HCAPLUS

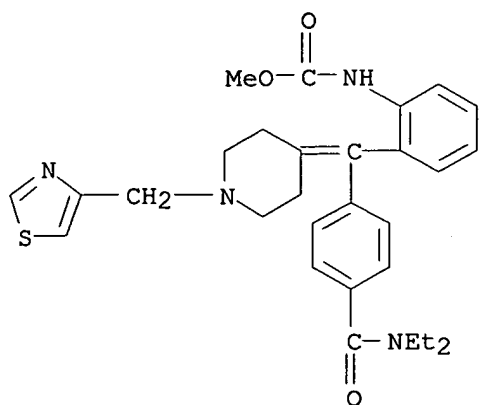
CN Carbamic acid, [2-[[4-[(diethylamino)carbonyl]phenyl][1-(4-thiazolylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester, trifluoroacetate (5:8) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-87-8

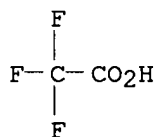
CMF C29 H34 N4 O3 S

Updated Search

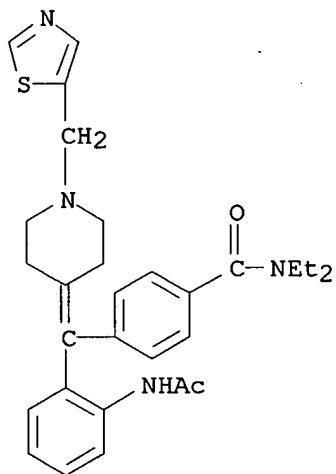


CM 2

CRN 76-05-1
CMF C2 H F3 O2



RN 798549-89-0 HCAPLUS
CN Benzamide, 4-[[2-(acetylamino)phenyl][1-(5-thiazolylmethyl)-4-piperidinyldene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 798549-90-3 HCAPLUS
CN Benzamide, 4-[[2-(acetylamino)phenyl][1-(5-thiazolylmethyl)-4-piperidinyldene]methyl]-N,N-diethyl-, trifluoroacetate (10:19) (9CI) (CA

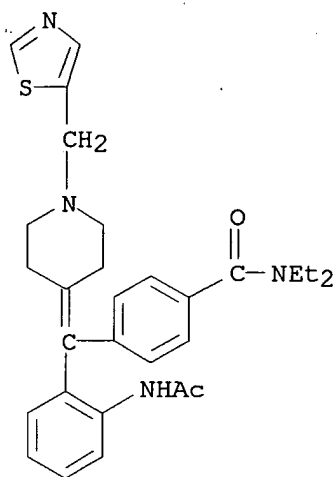
Updated Search

INDEX NAME)

CM 1

CRN 798549-89-0

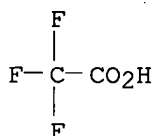
CMF C29 H34 N4 O2 S



CM 2

CRN 76-05-1

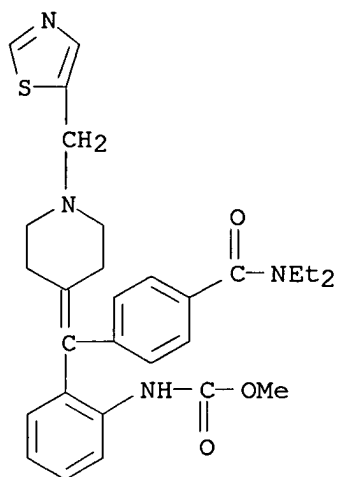
CMF C2 H F3 O2



RN 798549-91-4 HCAPLUS

CN Carbamic acid, [2-[[4-[(diethylamino)carbonyl]phenyl][1-(5-thiazolylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester (9CI)
(CA INDEX NAME)

Updated Search



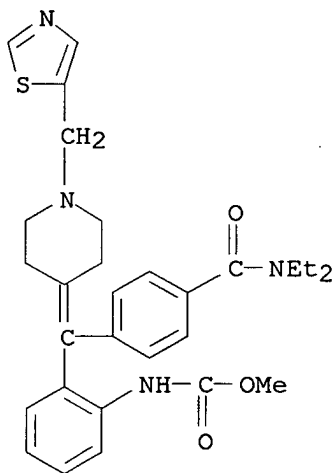
RN 798549-92-5 HCAPLUS

CN Carbamic acid, [2-[[4-[(diethylamino)carbonyl]phenyl][1-(5-thiazolylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester, trifluoroacetate (10:17) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-91-4

CMF C29 H34 N4 O3 S

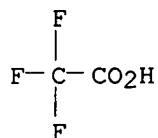


CM 2

CRN 76-05-1

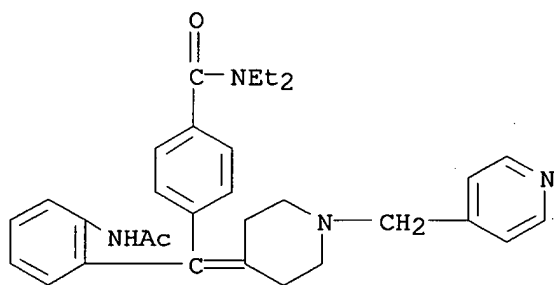
CMF C2 H F3 O2

Updated Search



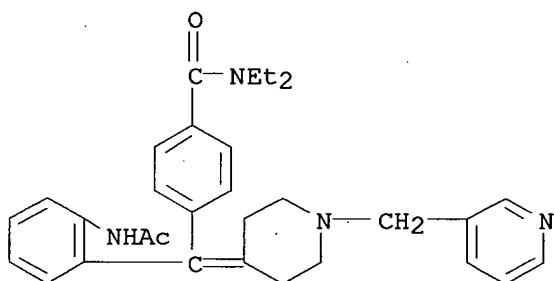
RN 798549-97-0 HCAPLUS

CN Benzamide, 4-[[2-(acetylamino)phenyl][1-(4-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 798549-98-1 HCAPLUS

CN Benzamide, 4-[[2-(acetylamino)phenyl][1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 798549-99-2 HCAPLUS

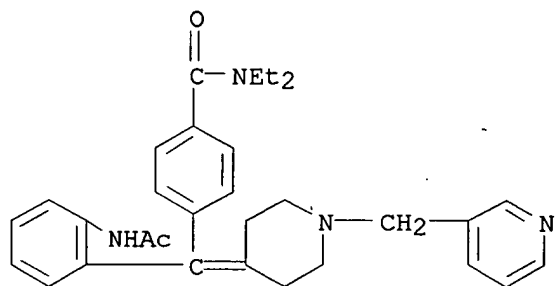
CN Benzamide, 4-[[2-(acetylamino)phenyl][1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, trifluoroacetate (2:7) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-98-1

CMF C31 H36 N4 O2

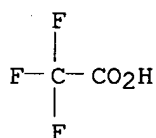
Updated Search



CM 2

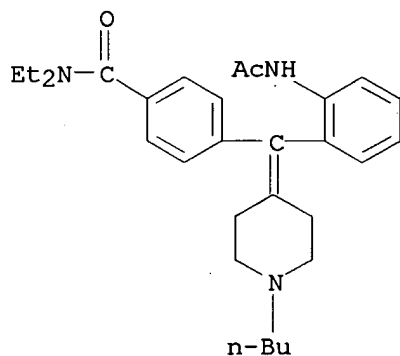
CRN 76-05-1

CMF C2 H F3 O2



RN 798550-00-2 HCAPLUS

CN Benzamide, 4-[[2-(acetamino)phenyl](1-butyl-4-piperidinylidene)methyl]-
N,N-diethyl- (CA INDEX NAME)



RN 798550-01-3 HCAPLUS

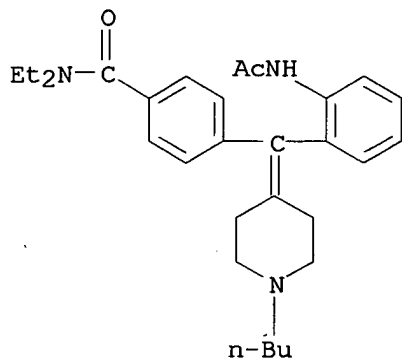
CN Benzamide, 4-[[2-(acetamino)phenyl](1-butyl-4-piperidinylidene)methyl]-
N,N-diethyl-, trifluoroacetate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 798550-00-2

CMF C29 H39 N3 O2

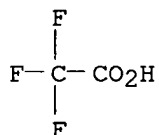
Updated Search



CM 2

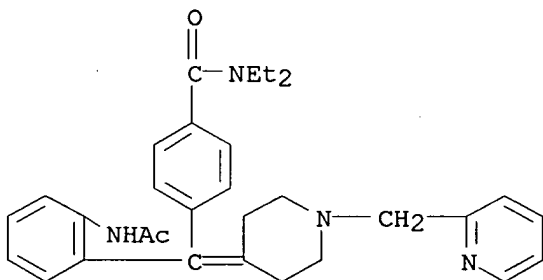
CRN 76-05-1

CMF C2 H F3 O2



RN 798550-02-4 HCAPLUS

CN Benzamide, 4-[[2-(acetylamino)phenyl][1-(2-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 798550-03-5 HCAPLUS

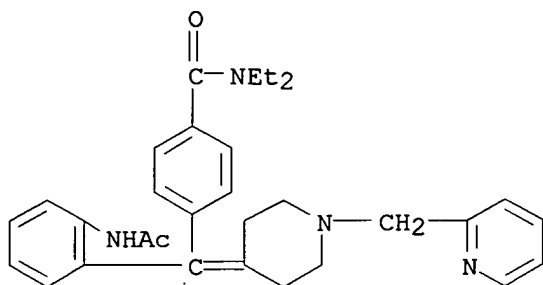
CN Benzamide, 4-[[2-(acetylamino)phenyl][1-(2-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, trifluoroacetate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 798550-02-4

CMF C31 H36 N4 O2

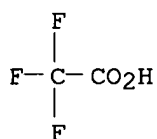
Updated Search



CM 2

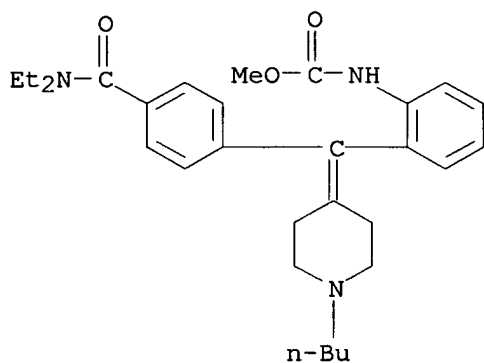
CRN 76-05-1

CMF C2 H F3 O2



RN 798550-04-6 HCAPLUS

CN Carbamic acid, [2-[(1-butyl-4-piperidinylidene) 4-
[(diethylamino)carbonyl]phenyl]methyl]phenyl]-, methyl ester (9CI) (CA
INDEX NAME)



RN 798550-05-7 HCAPLUS

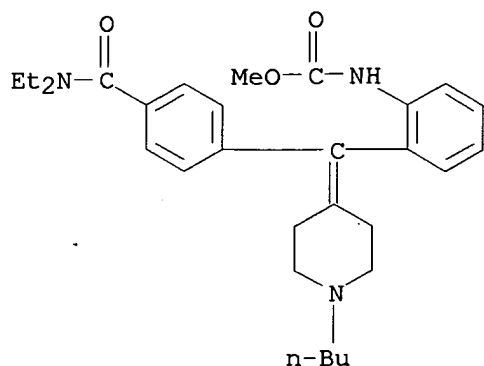
CN Carbamic acid, [2-[(1-butyl-4-piperidinylidene) 4-
[(diethylamino)carbonyl]phenyl]methyl]phenyl]-, methyl ester,
trifluoroacetate (10:27) (9CI) (CA INDEX NAME)

CM 1

CRN 798550-04-6

CMF C29 H39 N3 O3

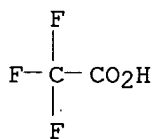
Updated Search



CM 2

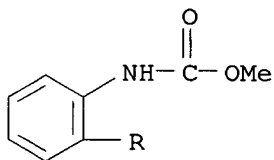
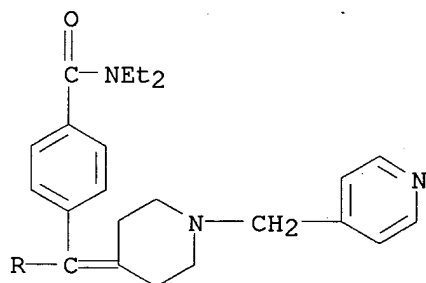
CRN 76-05-1

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RN 798550-06-8 HCAPLUS

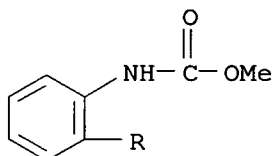
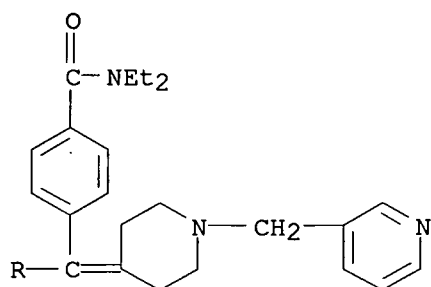
CN Carbamic acid, [2-[[4-[(diethylamino)carbonyl]phenyl][1-(4-pyridinylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester (9CI)
(CA INDEX NAME)



RN 798550-07-9 HCAPLUS

CN Carbamic acid, [2-[[4-[(diethylamino)carbonyl]phenyl][1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester (9CI)
(CA INDEX NAME)

Updated Search



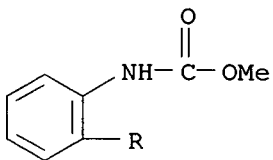
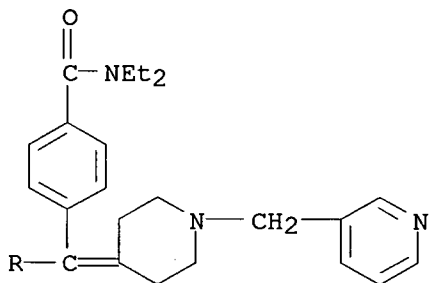
RN 798550-08-0 HCAPLUS

CN Carbamic acid, [2-[[4-[(diethylamino)carbonyl]phenyl][1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 798550-07-9

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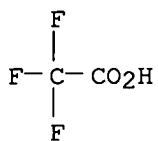


CM 2

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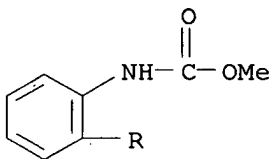
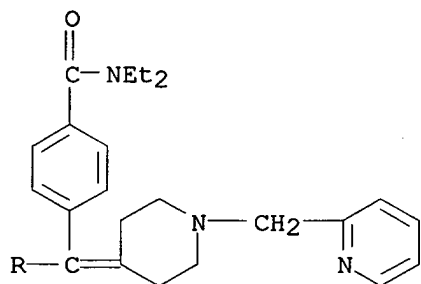
CMF C2 H F3 O2

Updated Search



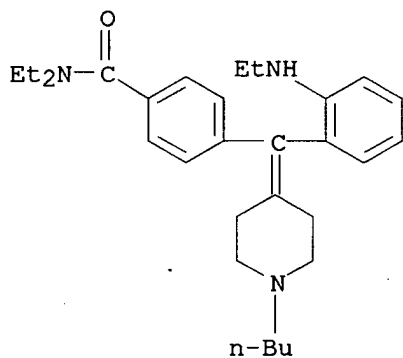
RN 798550-09-1 HCAPLUS

CN Carbamic acid, [2-[[4-[(diethylamino)carbonyl]phenyl][1-(2-pyridinylmethyl)-4-piperidinyldene]methyl]phenyl]-, methyl ester (9CI)
(CA INDEX NAME)



RN 798550-10-4 HCAPLUS

CN Benzamide, 4-[(1-butyl-4-piperidinyldene)[2-(ethylamino)phenyl]methyl]-N,N-diethyl- (CA INDEX NAME)



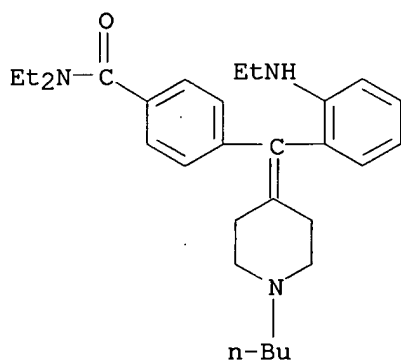
RN 798550-11-5 HCAPLUS

CN Benzamide, 4-[(1-butyl-4-piperidinyldene)[2-(ethylamino)phenyl]methyl]-N,N-diethyl-, trifluoroacetate (5:7) (9CI) (CA INDEX NAME)

CM 1

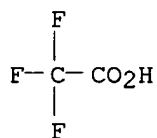
Updated Search

CRN 798550-10-4
CMF C29 H41 N3 O

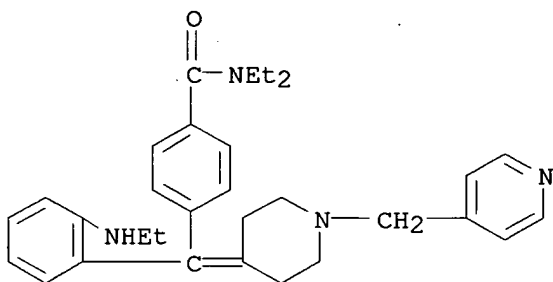


CM 2

CRN 76-05-1
CMF C2 H F3 O2



RN 798550-12-6 HCAPLUS
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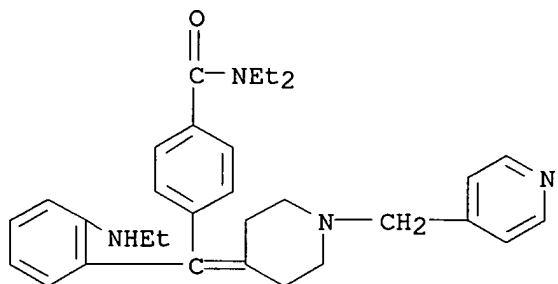


RN 798550-13-7 HCAPLUS
CN Benzamide, N,N-diethyl-4-[[2-(ethylamino)phenyl][1-(4-pyridinylmethyl)-4-piperidinylidene]methyl]-, trifluoroacetate (10:23) (9CI) (CA INDEX NAME)

CM 1

CRN 798550-12-6
CMF C31 H38 N4 O

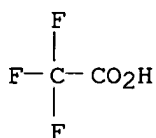
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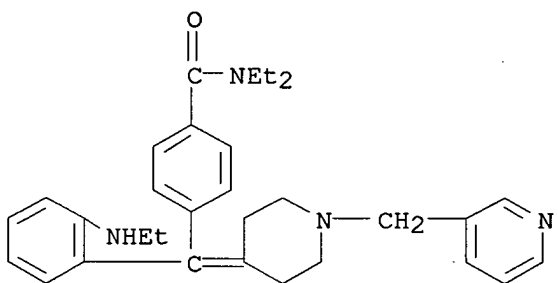
CRN 76-05-1

CMF C2 H F3 O2



RN 798550-14-8 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[2-(ethylamino)phenyl][1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]- (CA INDEX NAME)



RN 798550-15-9 HCAPLUS

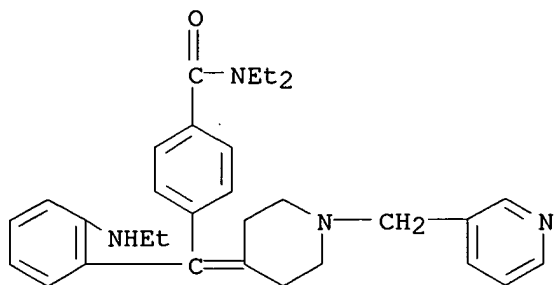
CN Benzamide, N,N-diethyl-4-[[2-(ethylamino)phenyl][1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]-, trifluoroacetate (10:23) (9CI) (CA INDEX NAME)

CM 1

CRN 798550-14-8

CMF C31 H38 N4 O

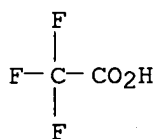
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CM 2

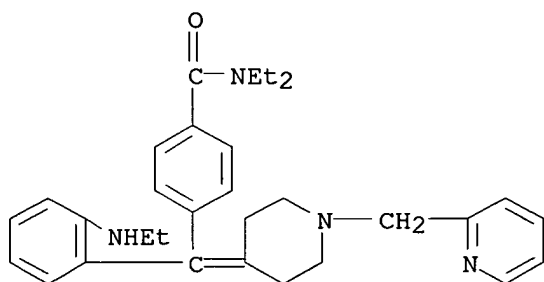
CRN 76-05-1

CMF C2 H F3 O2



RN 798550-16-0 HCAPLUS

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RN 798550-17-1 HCAPLUS

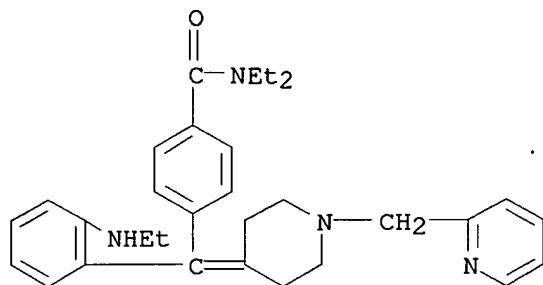
CN Benzamide, N,N-diethyl-4-[[2-(ethylamino)phenyl][1-(2-pyridinylmethyl)-4-piperidinylidene]methyl]-, trifluoroacetate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 798550-16-0

CMF C31 H38 N4 O

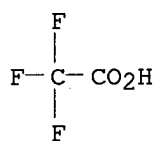
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CM 2

CRN 76-05-1

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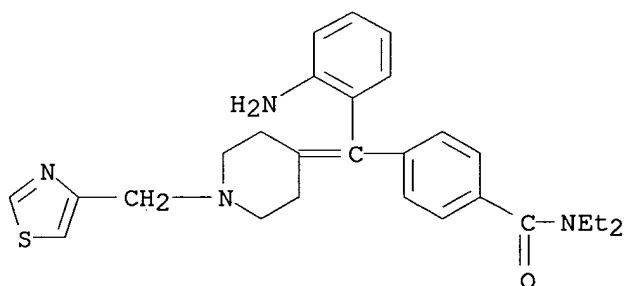
RN 798550-25-1 HCAPLUS

CN Benzamide, 4-[(2-aminophenyl)[1-(4-thiazolylmethyl)-4-piperidinyldene]methyl]-N,N-diethyl-, trifluoroacetate (10:21) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-83-4

CMF C27 H32 N4 O S

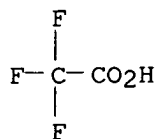


CM 2

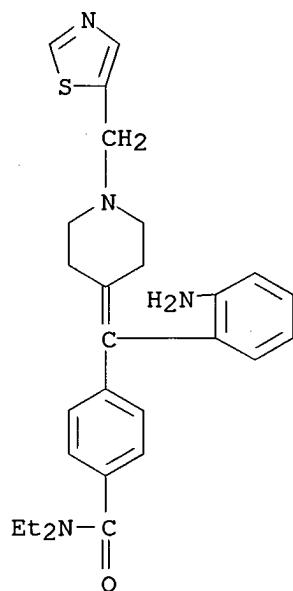
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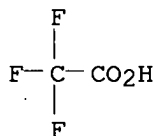
Updated Search



RN 798550-26-2 HCAPLUS
 CN Benzamide, 4-[(2-aminophenyl)[1-(5-thiazolylmethyl)-4-piperidinyldene]methyl]-N,N-diethyl-, trifluoroacetate (10:21) (9CI) (CA INDEX NAME)
 CM 1
 CRN 798549-84-5
 CMF C27 H32 N4 O S



CM 2
 CRN 76-05-1
 CMF C2 H F3 O2



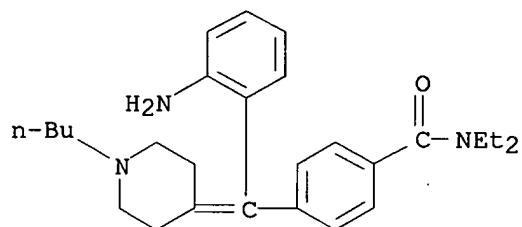
RN 798550-27-3 HCAPLUS
 CN Benzamide, 4-[(2-aminophenyl)(1-butyl-4-piperidinyldene)methyl]-N,N-diethyl-, trifluoroacetate (10:19) (9CI) (CA INDEX NAME)

Updated Search

CM 1

CRN 798549-93-6

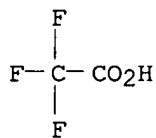
CMF C27 H37 N3 O



CM 2

CRN 76-05-1

CMF C2 H F3 O2



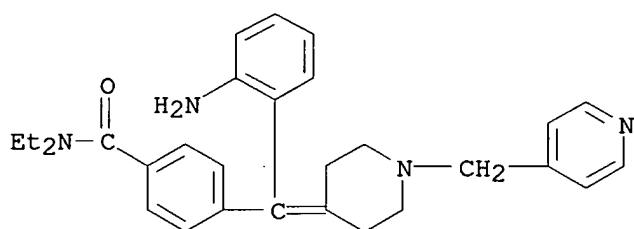
RN 798550-28-4 HCAPLUS

CN Benzamide, 4-[(2-aminophenyl)[1-(4-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, trifluoroacetate (5:12) (9CI) (CA INDEX NAME)

CM 1

CRN 798549-94-7

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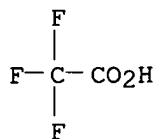


CM 2

CRN 76-05-1

CMF C2 H F3 O2

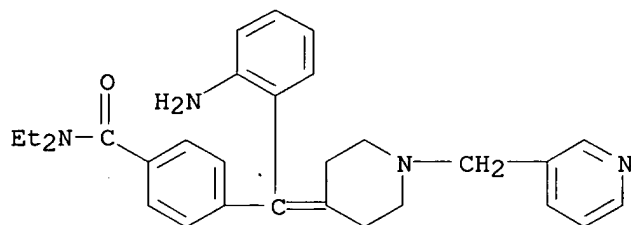
Updated Search



RN 798550-29-5 HCAPLUS
 CN Benzamide, 4-[(2-aminophenyl)[1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, trifluoroacetate (10:23) (9CI) (CA INDEX NAME)

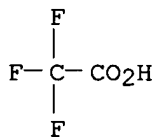
CM 1

CRN 798549-95-8
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CM 2

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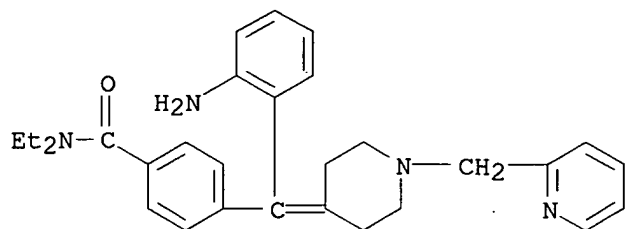


RN 798550-30-8 HCAPLUS
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CM 1

CRN 798549-96-9
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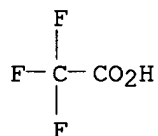
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CM 2

CRN 76-05-1

CMF C2 H F3 O2



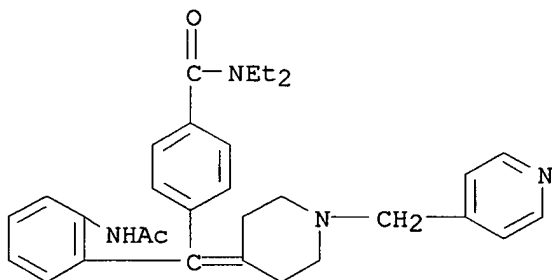
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CM 1

CRN 798549-97-0

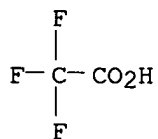
CMF C31 H36 N4 O2



CM 2

CRN 76-05-1

CMF C2 H F3 O2



Updated Search

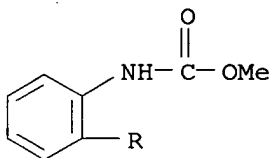
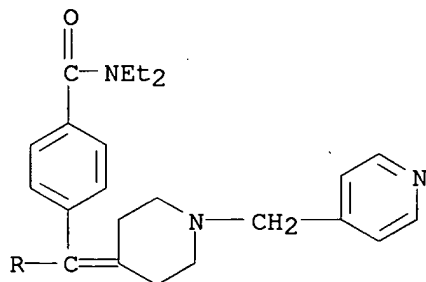
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CN Carbamic acid, [2-[[4-[(diethylamino)carbonyl]phenyl][1-(4-pyridinylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester, trifluoroacetate (5:11) (9CI) (CA INDEX NAME)

CM 1

CRN 798550-06-8

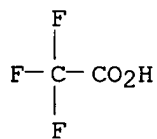
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CM 2

CRN 76-05-1

CMF C2 H F3 O2



RN 798550-33-1 HCAPLUS

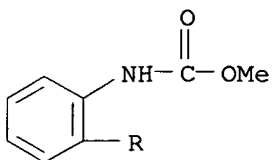
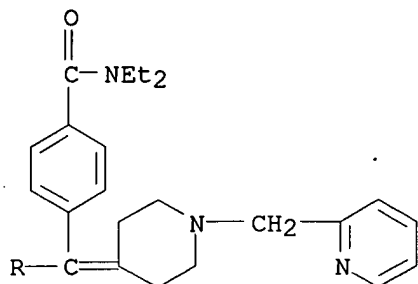
CN Carbamic acid, [2-[[4-[(diethylamino)carbonyl]phenyl][1-(2-pyridinylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester, trifluoroacetate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 798550-09-1

CMF C31 H36 N4 O3

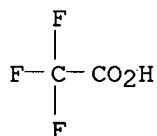
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CM 2

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CMF C2 H F3 O2



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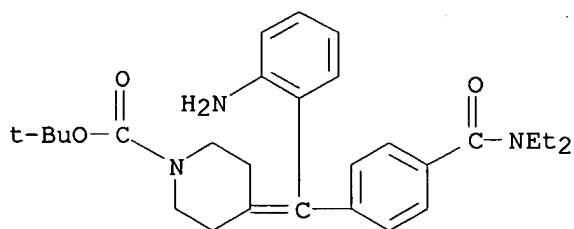
798550-21-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of diarylmethylidene piperidine derivs. as opioid & receptor ligands for treating pain, anxiety and functional gastrointestinal disorders)

RN 798550-18-2 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[(2-aminophenyl)[4-[(diethylamino)carbonyl]phenyl]methylene]-, 1,1-dimethylethyl ester (CA INDEX NAME)

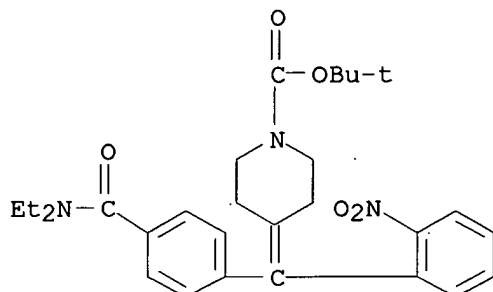


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CN 1-Piperidinecarboxylic acid, 4-[[4-[(diethylamino)carbonyl]phenyl](2-

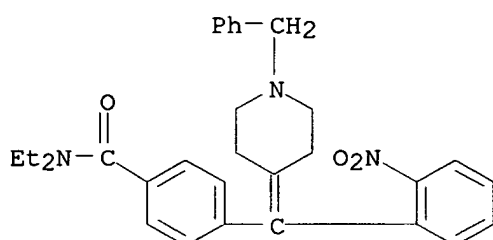
Updated Search

nitrophenyl)methylene]-, 1,1-dimethylethyl ester (CA INDEX NAME)



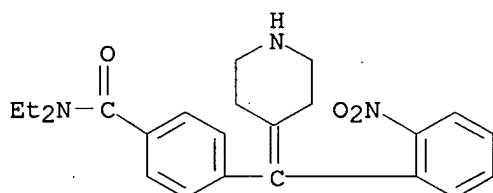
RN 798550-20-6 HCAPLUS

CN Benzamide, N,N-diethyl-4-[(2-nitrophenyl)[1-(phenylmethyl)-4-piperidinylidene]methyl]- (CA INDEX NAME)



RN 798550-21-7 HCAPLUS

CN Benzamide, N,N-diethyl-4-[(2-nitrophenyl)-4-piperidinylidenemethyl]- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:610034 HCAPLUS

DOCUMENT NUMBER: 141:140326

TITLE: Preparation of diarylmethylidene piperidines as δ -opioid receptor ligands for the treatment of pain.

INVENTOR(S): Brown, William; Griffin, Andrew; Walpole, Christopher

PATENT ASSIGNEE(S): Astrazeneca Ab, Swed.; Astrazeneca UK Limited

SOURCE: PCT Int. Appl., 60 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

Updated Search

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004062562	A2	20040729	WO 2004-GB99	20040113
WO 2004062562	A3	20040916		
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AU 2004204390	B2	20070906		
CA 2510382	A1	20040729	CA 2004-2510382	20040113
EP 1587790	A2	20051026	EP 2004-701624	20040113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
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NO 2005003809	A	20051017	NO 2005-3809	20050812
PRIORITY APPLN. INFO.:			SE 2003-105	A 20030116
			WO 2004-GB99	W 20040113
OTHER SOURCE(S):			MARPAT 141:140326	
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1 = (un)substituted aryl, heteroaryl; R2, R3, R4, R5 = H, alkyl, cycloalkyl] and their pharmaceutically acceptable salts were prepared. For example, acylation of aniline II [R6 = H], e.g., prepared from 4-(bromomethyl)benzoic acid Me ester in 8-steps, with acetyl chloride afforded piperidine II [R6 = COMe] as the trifluoroacetic acid salt in 52% yield. In human δ -opioid receptor binding assays, 7-examples of compds. I exhibited IC₅₀ values ranging from 0.19-1.49 nM. Compds. I are claimed useful in the management of pain.

IT 725242-56-8P, 4-[[3-(Acetylamino)phenyl][1-(thien-2-ylmethyl)piperidin-4-ylidene]methyl]-N,N-diethylbenzamide
 725242-57-9P, 4-[[3-(Acetylamino)phenyl][1-(2-furylmethyl)piperidin-4-ylidene]methyl]-N,N-diethylbenzamide
 725242-58-0P, 4-[[3-(Acetylamino)phenyl][1-(phenylmethyl)-4-piperidinylidene]methyl]-N,N-diethylbenzamide 725242-59-1P, 4-[[3-(Acetylamino)phenyl][1-(3-thienylmethyl)-4-piperidinylidene]methyl]-N,N-diethylbenzamide 725242-60-4P, 4-[[3-(Acetylamino)phenyl][1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethylbenzamide 725242-61-5P, 4-[[3-(Acetylamino)phenyl][1-(4-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethylbenzamide 725242-62-6P, 4-[[3-(Acetylamino)phenyl][1-(pyridin-2-ylmethyl)piperidin-4-ylidene]methyl]-N,N-diethylbenzamide 725242-63-7P, 4-[[3-(Acetylamino)phenyl][1-(1,3-thiazol-4-ylmethyl)piperidin-4-ylidene]methyl]-N,N-diethylbenzamide 725242-64-8P,

Updated Search

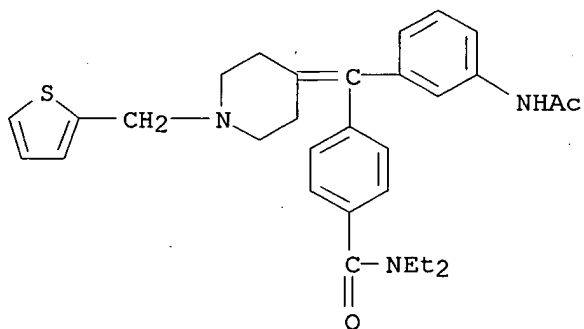
4-[[3-(Acetylamino)phenyl][1-(1,3-thiazol-5-ylmethyl)piperidin-4-ylidene]methyl]-N,N-diethylbenzamide 725242-67-1P
725242-70-6P 725242-71-7P 725242-75-1P
725242-80-8P 725242-83-1P 725242-87-5P
725242-88-6P 725242-90-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of diarylmethylidene piperidines as δ -opioid receptor ligands for the treatment of pain.)

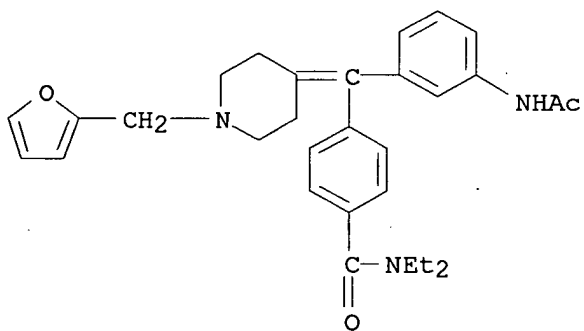
RN 725242-56-8 HCAPLUS

CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(2-thienylmethyl)-4-piperidinyldiene]methyl]-N,N-diethyl- (CA INDEX NAME)



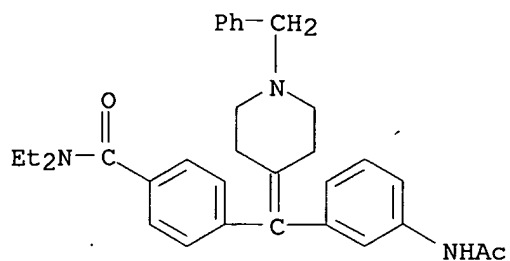
RN 725242-57-9 HCAPLUS

CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(2-furanylmethyl)-4-piperidinyldiene]methyl]-N,N-diethyl- (CA INDEX NAME)



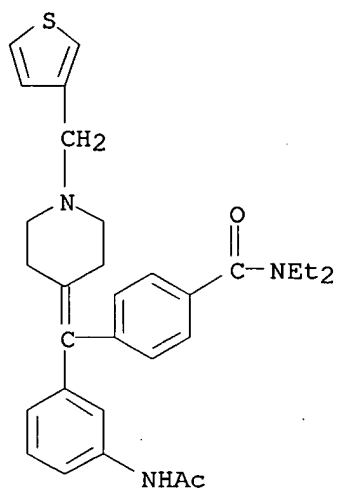
RN 725242-58-0 HCAPLUS

CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(phenylmethyl)-4-piperidinyldiene]methyl]-N,N-diethyl- (CA INDEX NAME)



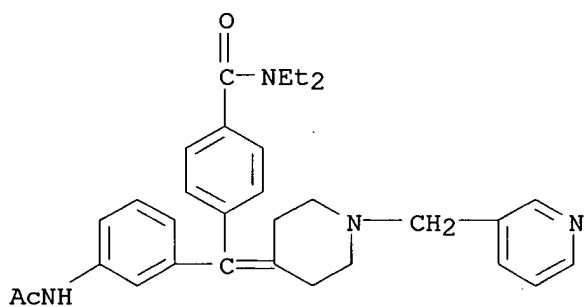
RN 725242-59-1 HCAPLUS

CN Benzamide, 4-[[3-(acetamino)phenyl][1-(3-thienylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 725242-60-4 HCAPLUS

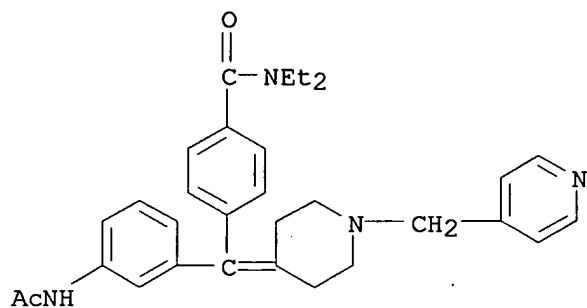
CN Benzamide, 4-[[3-(acetamino)phenyl][1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



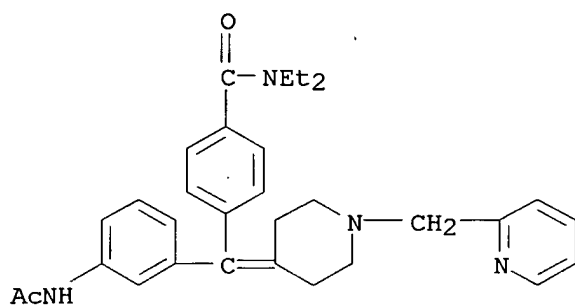
RN 725242-61-5 HCAPLUS

CN Benzamide, 4-[[3-(acetamino)phenyl][1-(4-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)

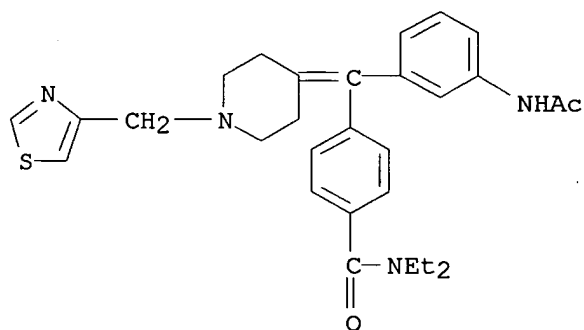
Updated Search



RN 725242-62-6 HCAPLUS
 CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(2-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)

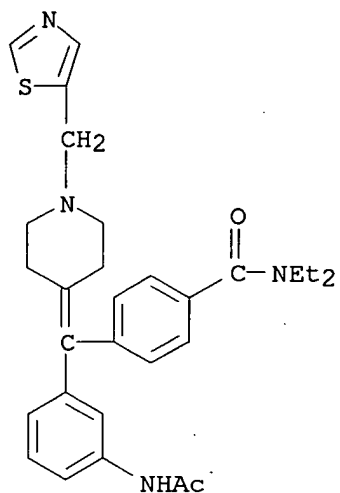


RN 725242-63-7 HCAPLUS
 CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(4-thiazolylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 725242-64-8 HCAPLUS
 CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(5-thiazolylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)

Updated Search



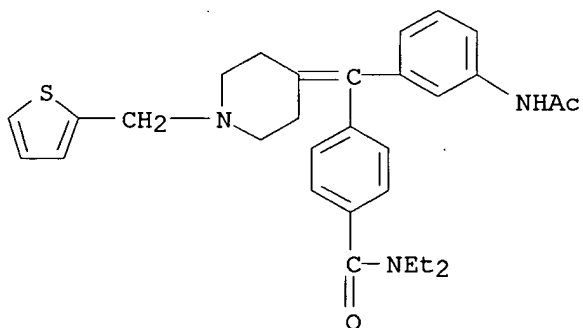
RN 725242-67-1 HCAPLUS

CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(2-thienylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 725242-56-8

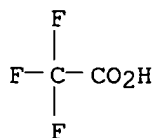
CMF C30 H35 N3 O2 S



CM 2

CRN 76-05-1

CMF C2 H F3 O2



RN 725242-70-6 HCAPLUS

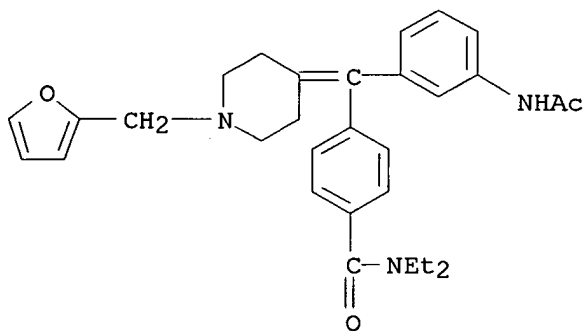
Updated Search

CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(2-furanylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 725242-57-9

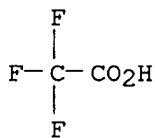
CMF C30 H35 N3 O3



CM 2

CRN 76-05-1

CMF C2 H F3 O2



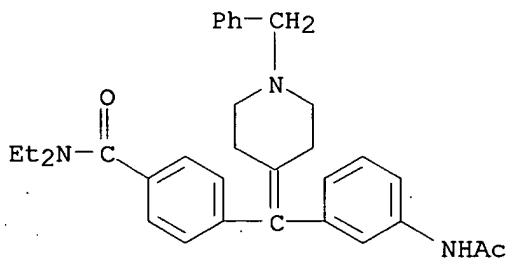
RN 725242-71-7 HCAPLUS

CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(phenylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 725242-58-0

CMF C32 H37 N3 O2

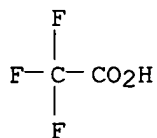


Updated Search

CM 2

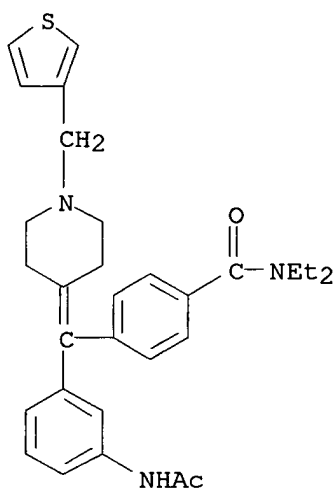
CRN 76-05-1

CMF C2 H F3 O2



RN 725242-75-1 HCAPLUS

CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(3-thienylmethyl)-4-piperidinyldene]methyl]-N,N-diethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 725242-80-8 HCAPLUS

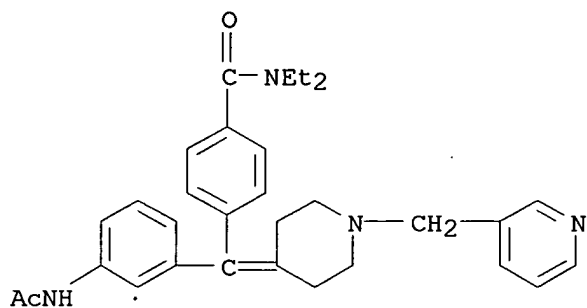
CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(3-pyridinylmethyl)-4-piperidinyldene]methyl]-N,N-diethyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 725242-60-4

CMF C31 H36 N4 O2

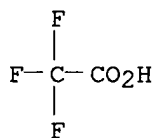
Updated Search



CM 2

CRN 76-05-1

CMF C2 H F3 O2



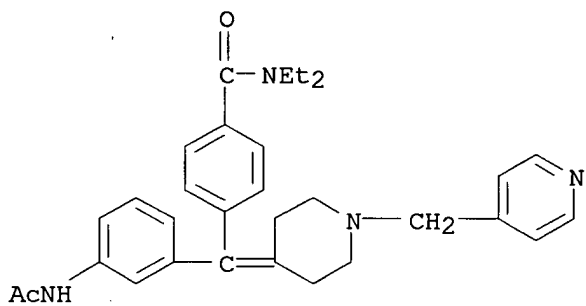
RN 725242-83-1 HCAPLUS

CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(4-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 725242-61-5

CMF C31 H36 N4 O2

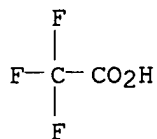


CM 2

CRN 76-05-1

CMF C2 H F3 O2

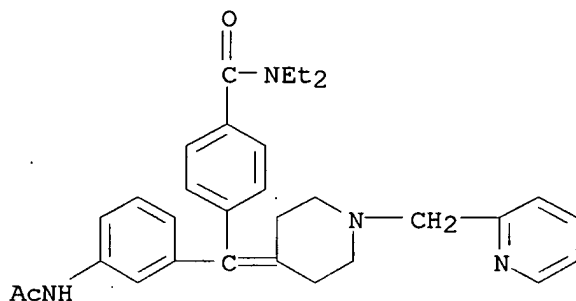
Updated Search



RN 725242-87-5 HCAPLUS
 CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(2-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

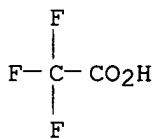
CM 1

CRN 725242-62-6
 CMF C31 H36 N4 O2



CM 2

CRN 76-05-1
 CMF C2 H F3 O2

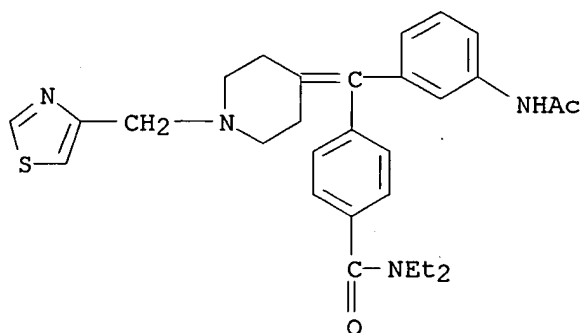


RN 725242-88-6 HCAPLUS
 CN Benzamide, 4-[[3-(acetylamino)phenyl][1-(4-thiazolylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 725242-63-7
 CMF C29 H34 N4 O2 S

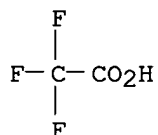
Updated Search



CM 2

CRN 76-05-1

CMF C2 H F3 O2



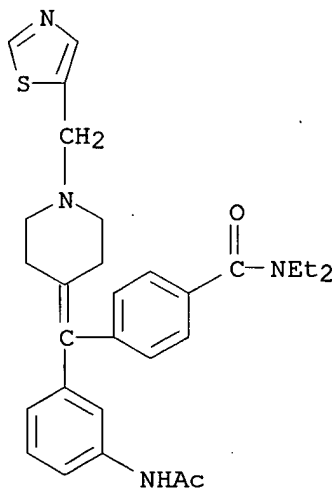
RN 725242-90-0 HCAPLUS

CN Benzamide, 4-[[3-(acetamidino)phenyl][1-(5-thiazolylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 725242-64-8

CMF C29 H34 N4 O2 S

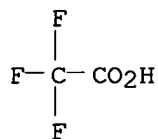


Updated Search

CM 2

CRN 76-05-1

CMF C2 H F3 O2



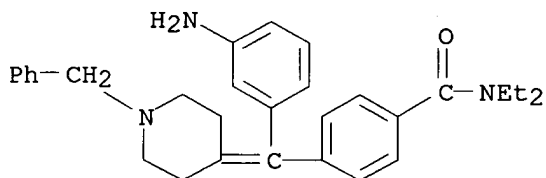
IT 477185-74-3P, 4-[1-(3-Aminophenyl)[1-(phenylmethyl)piperidin-4-ylidene]methyl]-N,N-diethylbenzamide 477185-77-6P, 4-[(3-Aminophenyl)[1-(2-furymethyl)piperidin-4-ylidene]methyl]-N,N-diethylbenzamide 477185-79-8P 477185-80-1P 725242-78-4P, 4-[(3-Aminophenyl)[1-(3-pyridinylmethyl)-4-piperidinyldiene]methyl]-N,N-diethylbenzamide 725242-85-3P, 4-[[3-(Acetylamino)phenyl](piperidin-4-ylidene)methyl]-N,N-diethylbenzamide

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of diarylmethylidene piperidines as δ -opioid receptor ligands for the treatment of pain.)

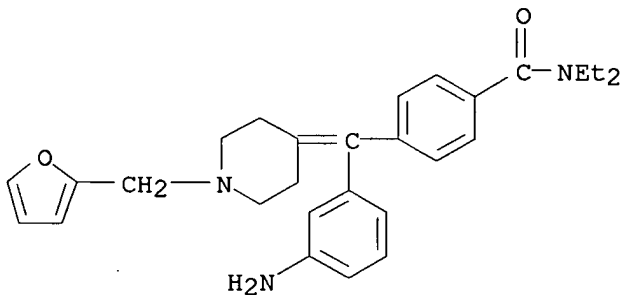
RN 477185-74-3 HCAPLUS

CN Benzamide, 4-[(3-aminophenyl)[1-(phenylmethyl)-4-piperidinyldiene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 477185-77-6 HCAPLUS

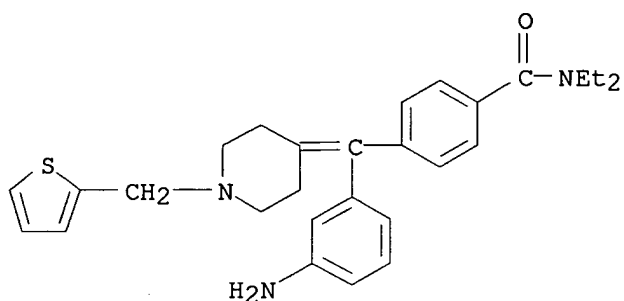
CN Benzamide, 4-[(3-aminophenyl)[1-(2-furanylmethyl)-4-piperidinyldiene]methyl]-N,N-diethyl- (CA INDEX NAME)



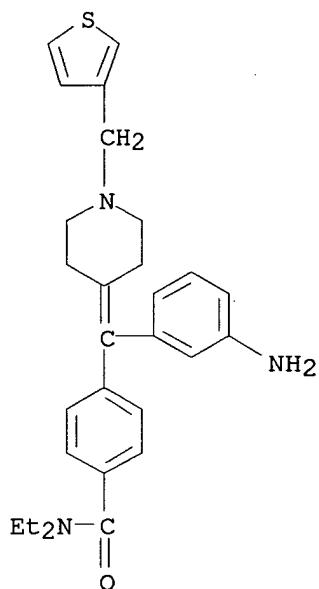
RN 477185-79-8 HCAPLUS

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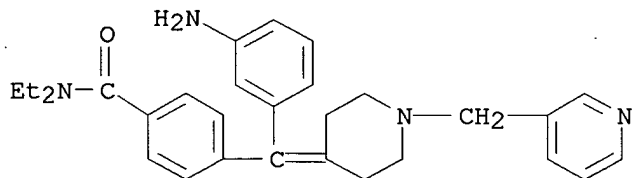
Updated Search



RN 477185-80-1 HCAPLUS
 CN Benzamide, 4-[(3-aminophenyl)[1-(3-thienylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)

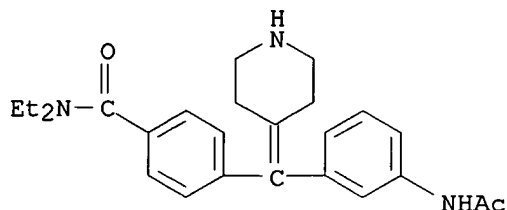


RN 725242-78-4 HCAPLUS
 CN Benzamide, 4-[(3-aminophenyl)[1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 725242-85-3 HCAPLUS
 CN Benzamide, 4-[[3-(acetamido)phenyl]-4-piperidinyldenemethyl]-N,N-diethyl- (CA INDEX NAME)

Updated Search



L5 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:606467 HCAPLUS
 DOCUMENT NUMBER: 141:157038
 TITLE: Preparation of 4-[3-(sulfonylamino)phenyl-1-(cyclylmethyl)piperidin-4-ylidenemethyl]benazmide derivatives as delta opioid receptor ligands
 INVENTOR(S): Brown, William; Griffin, Andrew; Walpole, Christopher
 PATENT ASSIGNEE(S): Astrazeneca Ab, Swed.; Astrazeneca UK Limited
 SOURCE: PCT Int. Appl., 54 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004063193	A1	20040729	WO 2004-GB61	20040113
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
EP 1590346	A1	20051102	EP 2004-701628	20040113
EP 1590346	B1	20061025		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006515352	T	20060525	JP 2006-500189	20040113
AT 343571	T	20061115	AT 2004-701628	20040113
ES 2274415	T3	20070516	ES 2004-4701628	20040113
US 2006148850	A1	20060706	US 2005-541664	20050707
PRIORITY APPLN. INFO.:			SE 2003-104	A 20030116
			WO 2004-GB61	W 20040113
OTHER SOURCE(S):		MARPAT 141:157038		
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1 = aryl, heteroaryl, etc.; R2-5 = H, alkyl, cycloalkyl, etc.] are prepared For instance, 4-[bromo(4-carboxyphenyl)methylen]piperidine-1-carboxylic acid tert-Bu ester (preparation given) is converted to the diethylamide (CH₂Cl₂, i-BuO₂CCl, HNEt₂), deprotected (CH₂Cl₂, TFA), alkylated with thiophene-2-carboxaldehyde (1,2-dichloroethane, NaHB(OAc)₃), coupled to m-aminobenzeneboronic acid (PhMe/EtOH/H₂O, Pd(PPh₃)₄, Na₂CO₃) and finally treated with methanesulfonic anhydride to give II. Compds. of the invention have IC₅₀ in the range of 0.18 - 0.56

Updated Search

nM for the δ -opioid receptor. I are useful in the management of pain.

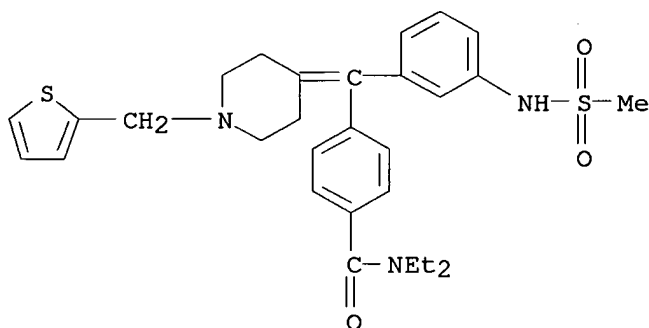
IT 728917-19-9P, N,N-Diethyl-4-[[3-[(methylsulfonyl)amino]phenyl][1-(thien-2-ylmethyl)piperidin-4-ylidene]methyl]benzamide
728917-20-2P 728917-21-3P 728917-22-4P,
N,N-Diethyl-4-[[1-(2-furanylmethyl)-4-piperidinylidene][3-[(methylsulfonyl)amino]phenyl]methyl]benzamide 728917-23-5P,
N,N-Diethyl-4-[[1-(phenylmethyl)-4-piperidinylidene][3-[(methylsulfonyl)amino]phenyl]methyl]benzamide 728917-24-6P
728917-25-7P, N,N-Diethyl-4-[[3-[(methylsulfonyl)amino]phenyl][1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]benzamide
728917-26-8P 728917-30-4P 728917-31-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 4-[3-(sulfonylamino)phenyl-1-(cyclylmethyl)piperidin-4-ylidenemethyl]benzamide derivs. as delta opioid receptor ligands)

RN 728917-19-9 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[(methylsulfonyl)amino]phenyl][1-(2-thienylmethyl)-4-piperidinylidene]methyl]- (CA INDEX NAME)



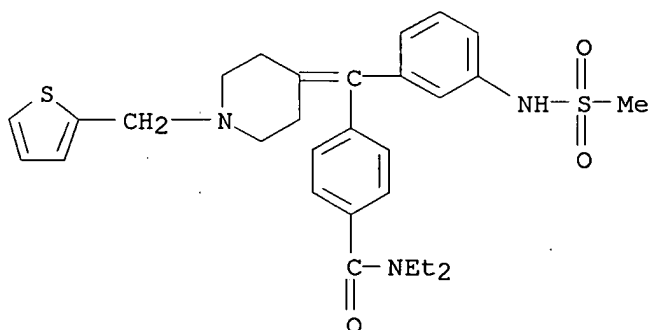
RN 728917-20-2 HCAPLUS

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(CA INDEX NAME)

CM 1

CRN 728917-19-9

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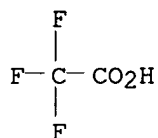


Updated Search

CM 2

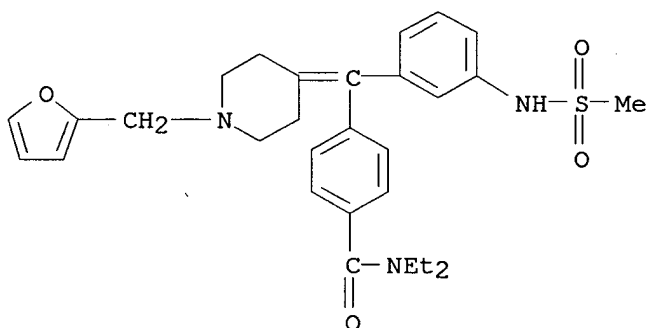
CRN 76-05-1

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RN 728917-21-3 HCAPLUS

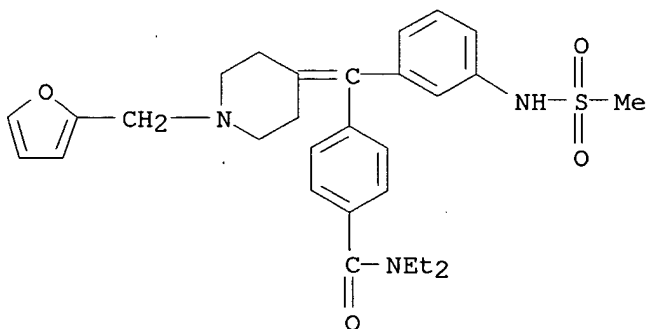
CN Benzamide, N,N-diethyl-4-[[1-(2-furanylmethyl)-4-piperidinyldiene][3-[(methylsulfonyl)amino]phenyl]methyl]-, hydrochloride (5:6) (CA INDEX NAME)



●6/5 HCl

RN 728917-22-4 HCAPLUS

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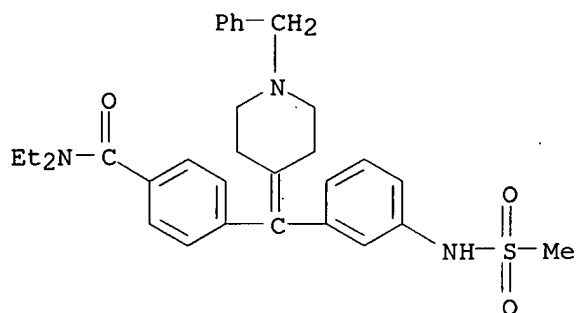


RN 728917-23-5 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[(methylsulfonyl)amino]phenyl][1-

Updated Search

(phenylmethyl)-4-piperidinylidene]methyl]- (CA INDEX NAME)



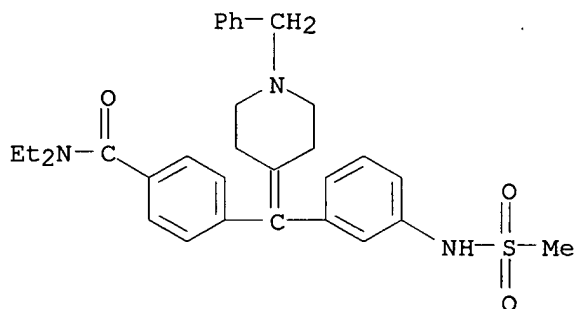
RN 728917-24-6 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[(methanesulfonyl)amino]phenyl][1-(phenylmethyl)-4-piperidinylidene]methyl]-, trifluoroacetate (10:13) (9CI)
(CA INDEX NAME)

CM 1

CRN 728917-23-5

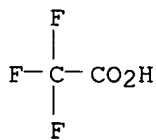
CMF C31 H37 N3 O3 S



CM 2

CRN 76-05-1

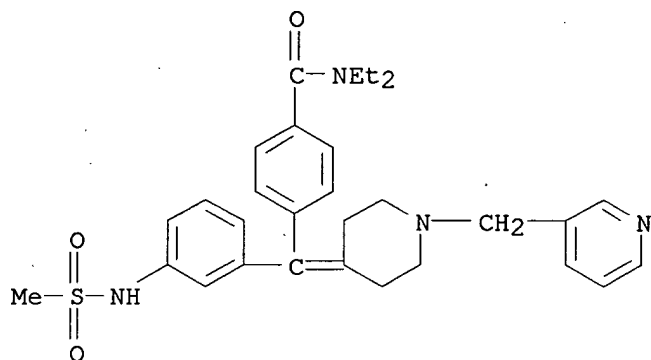
CMF C2 H F3 O2



RN 728917-25-7 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[(methanesulfonyl)amino]phenyl][1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]- (CA INDEX NAME)

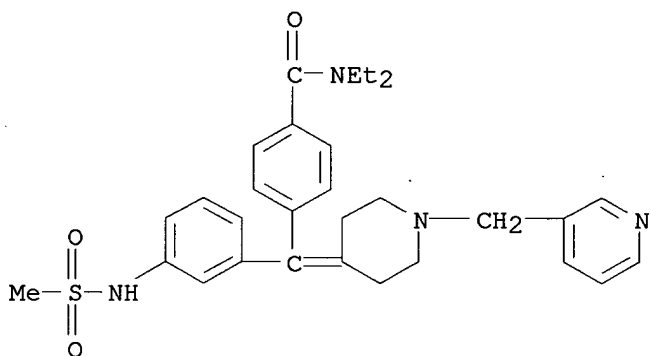
Updated Search



RN 728917-26-8 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-[(methanesulfonyl)amino]phenyl][1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]-, trifluoroacetate (2:5) (9CI)
 (CA INDEX NAME)

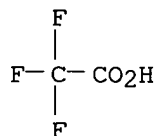
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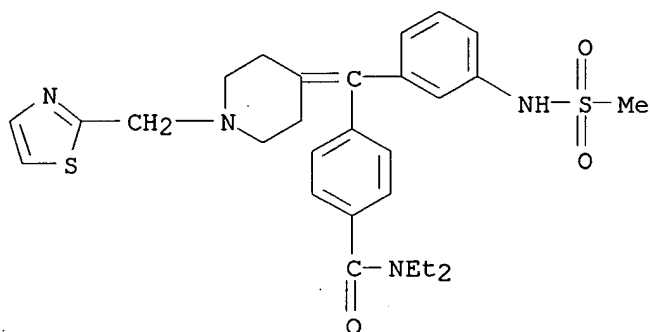
CM 2

CRN 76-05-1
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RN 728917-30-4 HCAPLUS
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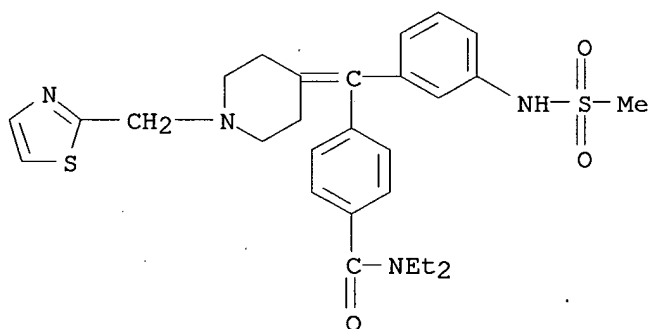
Updated Search



RN 728917-31-5 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-[(methanesulfonyl)amino]phenyl][1-(2-thiazolylmethyl)-4-piperidinylidene]methyl]-, trifluoroacetate (2:5) (9CI)
 (CA INDEX NAME)

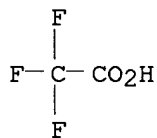
CM 1

CRN 728917-30-4
 CMF C28 H34 N4 O3 S2



CM 2

CRN 76-05-1
 CMF C2 H F3 O2



IT 209807-56-7P, N,N-Diethyl-4-[(3-nitrophenyl)-4-piperidinylidenemethyl]benzamide 477185-74-3P,
 4-[(3-Aminophenyl)[1-(phenylmethyl)piperidin-4-ylidene]methyl]-N,N-diethylbenzamide 477185-77-6P, 4-[(3-Aminophenyl)[1-(2-furylmethyl)piperidin-4-ylidene]methyl]-N,N-diethylbenzamide

Updated Search

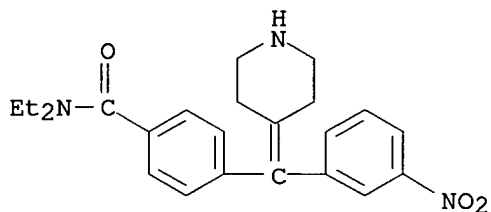
477185-79-8P 725242-78-4P, 4-[(3-Aminophenyl)[1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethylbenzamide
 728917-27-9P, 4-[[4-[(Diethylamino)carbonyl]phenyl](3-nitrophenyl)methylene]-1-piperidinecarboxylic acid 1,1-dimethylethyl ester
 728917-28-0P 728917-29-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 4-[3-(sulfonylamino)phenyl-1-(cyclymethyl)piperidin-4-ylidenemethyl]benzamide derivs. as delta opioid receptor ligands)

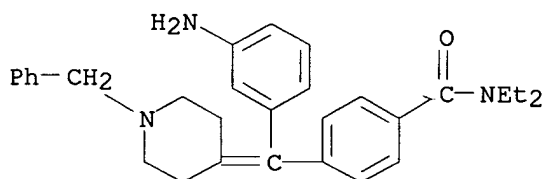
RN 209807-56-7 HCAPLUS

CN Benzamide, N,N-diethyl-4-[(3-nitrophenyl)-4-piperidinylidenemethyl]- (CA INDEX NAME)



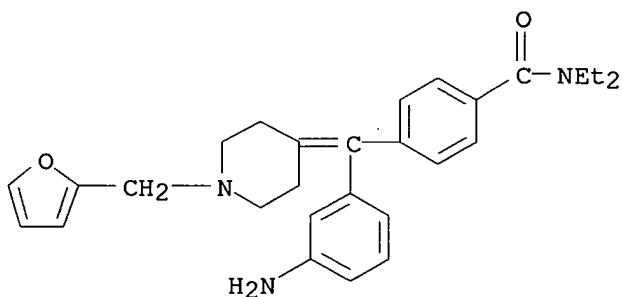
RN 477185-74-3 HCAPLUS

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RN 477185-77-6 HCAPLUS

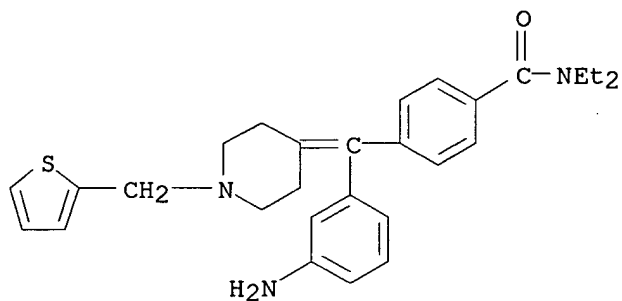
CN Benzamide, 4-[(3-aminophenyl)[1-(2-furanylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 477185-79-8 HCAPLUS

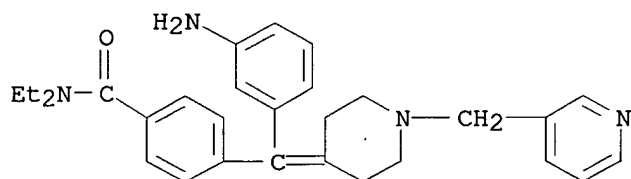
CN Benzamide, 4-[(3-aminophenyl)[1-(2-thienylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)

Updated Search



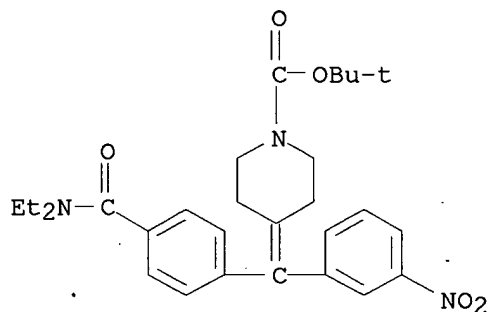
RN 725242-78-4 HCAPLUS

CN Benzamide, 4-[(3-aminophenyl)[1-(3-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



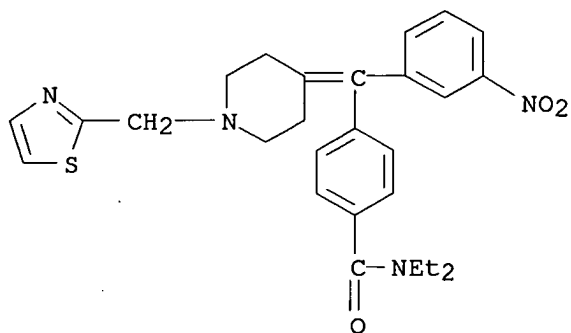
RN 728917-27-9 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-[(diethylamino)carbonyl]phenyl](3-nitrophenyl)methylene]-, 1,1-dimethylethyl ester (CA INDEX NAME)

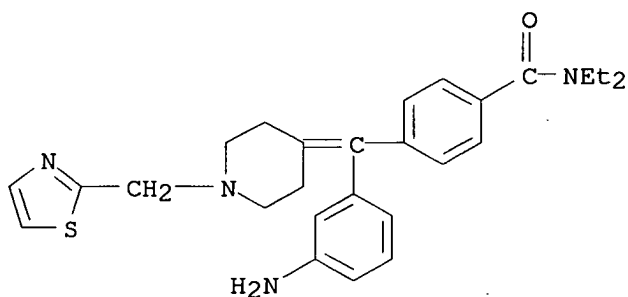


RN 728917-28-0 HCAPLUS

CN Benzamide, N,N-diethyl-4-[(3-nitrophenyl)[1-(2-thiazolylmethyl)-4-piperidinylidene]methyl]- (CA INDEX NAME)



RN 728917-29-1 HCAPLUS
 CN Benzamide, 4-[(3-aminophenyl)[1-(2-thiazolylmethyl)-4-piperidinyldene]methyl]-N,N-diethyl- (CA INDEX NAME)



L5 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:606441 HCAPLUS
 DOCUMENT NUMBER: 141:140324
 TITLE: Preparation of diarylmethylidene piperidines as δ -opioid receptor ligands for the treatment of pain.
 INVENTOR(S): Brown, William; Griffin, Andrew; Walpole, Christopher
 PATENT ASSIGNEE(S): Astrazeneca Ab, Swed.; Astrazeneca UK Limited
 SOURCE: PCT Int. Appl., 56 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004063157	A1	20040729	WO 2004-GB116	20040113
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
AU 2004203969	A1	20040729	AU 2004-203969	20040113
AU 2004203969	B2	20070906		
CA 2510400	A1	20040729	CA 2004-2510400	20040113
EP 1587791	A1	20051026	EP 2004-701634	20040113

Updated Search

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

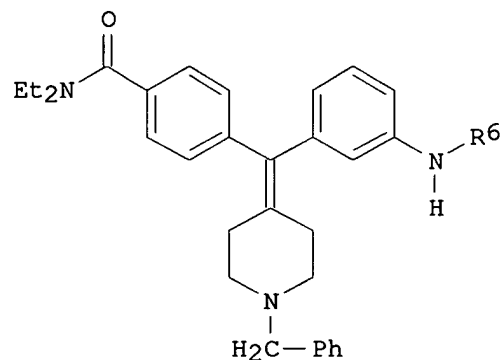
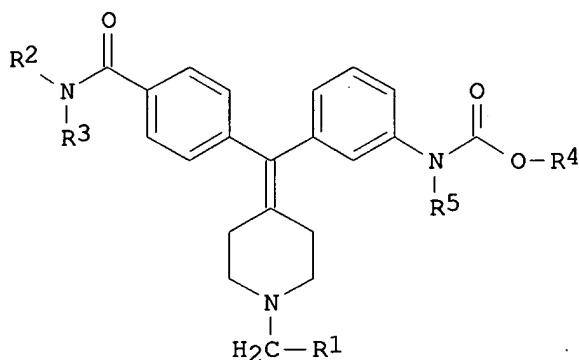
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CN 1735596	A	20060215	CN 2004-80002123	20040113
JP 2006515356	T	20060525	JP 2006-500208	20040113
IN 2005DN02716	A	20070112	IN 2005-DN2716	20050620
ZA 2005005189	A	20060426	ZA 2005-5189	20050627
US 2006116399	A1	20060601	US 2005-541656	20050707
NO 2005003805	A	20051017	NO 2005-3805	20050812

PRIORITY APPLN. INFO.:

SE 2003-103	A	20030116
WO 2004-GB116	W	20040113

OTHER SOURCE(S): MARPAT 141:140324

GI



AB Title compds. I [R1 = (un)substituted aryl, heteroaryl; R2, R3, R4, R5 = H, alkyl, cycloalkyl] and their pharmaceutically acceptable salts were prepared For example, acylation of aniline II [R6 = H], e.g., prepared from 4-(bromomethyl)benzoic acid Me ester in 8-steps, with Me chloroformate, afforded piperidine II [R6 = COOMe] as the trifluoroacetic acid salt in 38% yield. In human δ -opioid receptor binding assays, 4-examples of compds. I exhibited IC50 values ranging from 0.30-0.48 nM, e.g., the IC50 value of piperidine II [R6 = COOMe] was 0.48 nM. Compds. I are claimed useful in the management of pain.

IT 725229-70-9P 725229-71-0P 725229-72-1P
725229-73-2P 725229-74-3P 725229-75-4P
725229-76-5P 725229-78-7P 725229-79-8P
725229-80-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

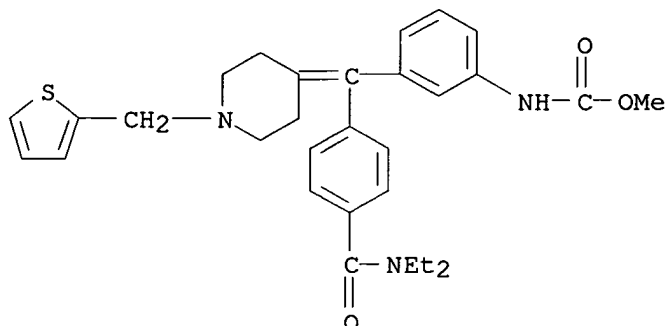
Updated Search

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of diarylmethylidene piperidines as δ -opioid receptor ligands for the treatment of pain.)

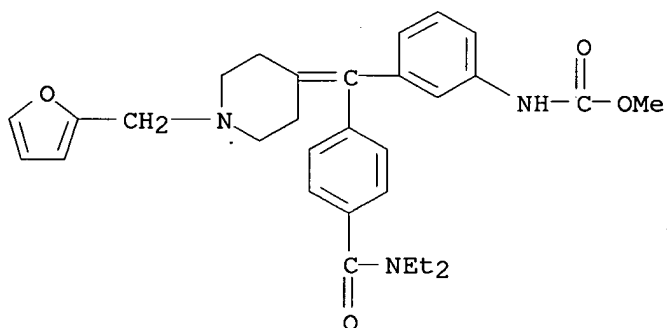
RN 725229-70-9 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(2-thienylmethyl)-4-piperidinyldene]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



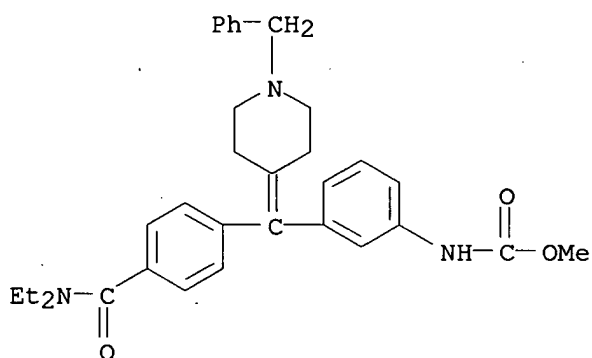
RN 725229-71-0 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(2-furanylmethyl)-4-piperidinyldene]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



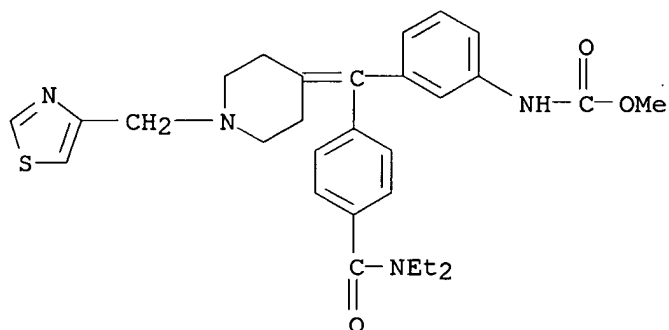
RN 725229-72-1 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(phenylmethyl)-4-piperidinyldene]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)

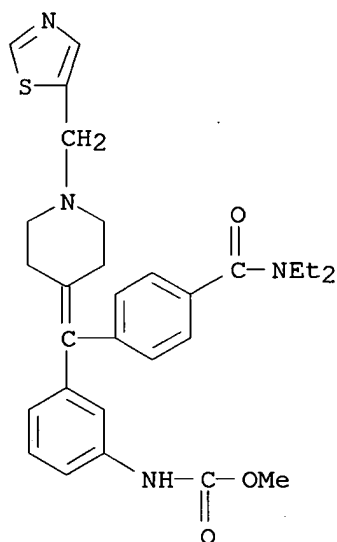


Updated Search

RN 725229-73-2 HCAPLUS
 CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(4-thiazolylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester (9CI)
 (CA INDEX NAME)



RN 725229-74-3 HCAPLUS
 CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(5-thiazolylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester (9CI)
 (CA INDEX NAME)

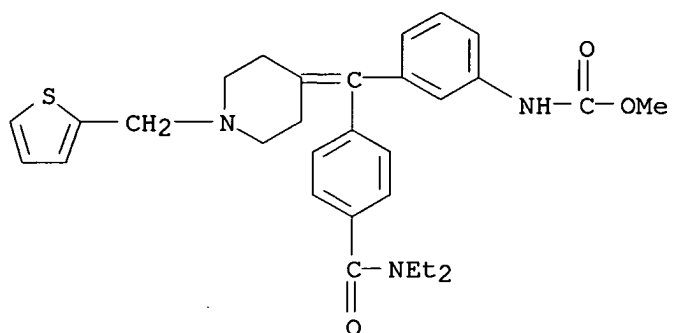


RN 725229-75-4 HCAPLUS
 CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(2-thienylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 725229-70-9
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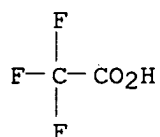
Updated Search



CM 2

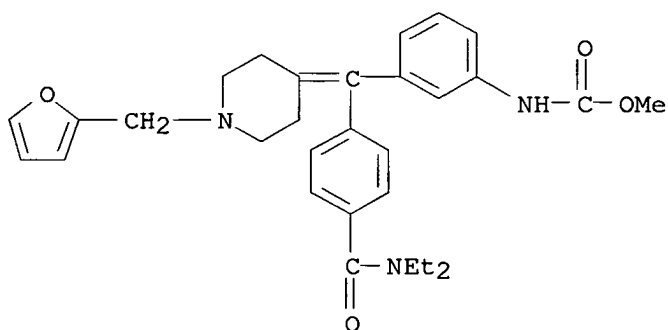
CRN 76-05-1

CMF C2 H F3 O2



RN 725229-76-5 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(2-furanylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester, monohydrochloride (9CI)
(CA INDEX NAME)



● HCl

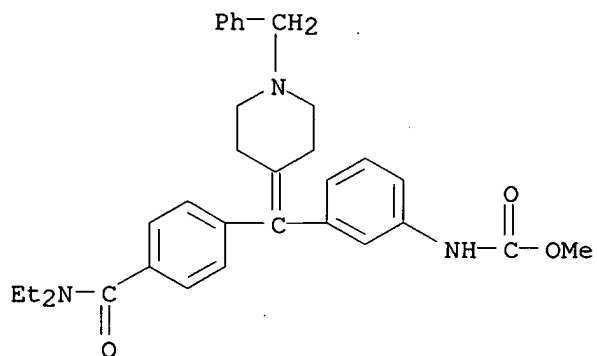
RN 725229-78-7 HCAPLUS

CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(phenylmethyl)-4-piperidinylidene]methyl]phenyl]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

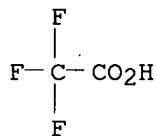
Updated Search

CRN 725229-72-1
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CM 2

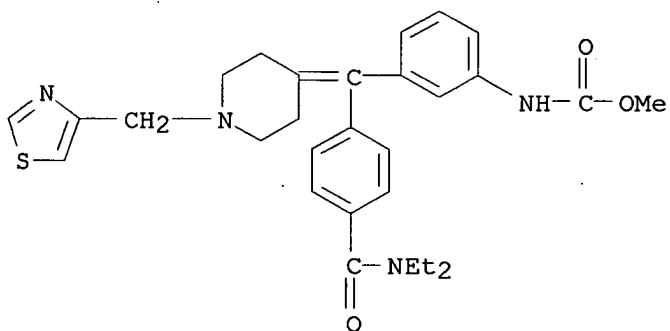
CRN 76-05-1
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RN 725229-79-8 HCAPLUS
 CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(4-thiazolylmethyl)-4-piperidinyldene]methyl]phenyl]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

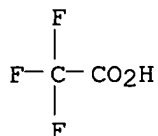
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CM 2

Updated Search

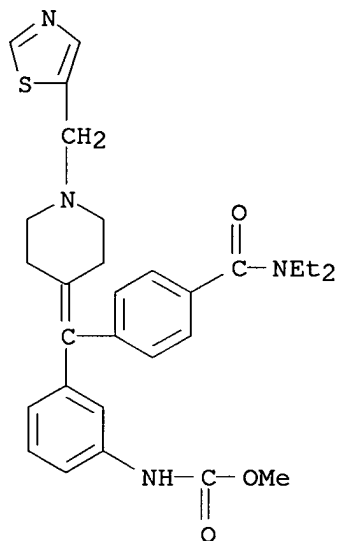
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RN 725229-80-1 HCAPLUS
CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl][1-(5-thiazolylmethyl)-4-piperidinyldene]methyl]phenyl]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

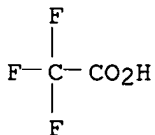
CM 1

CRN 725229-74-3
CMF C29 H34 N4 O3 S



CM 2

CRN 76-05-1
CMF C2 H F3 O2



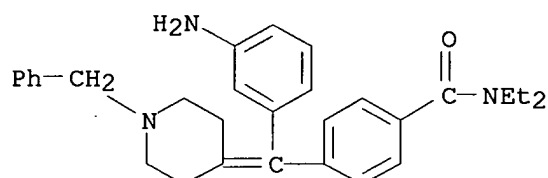
IT 477185-74-3P 477185-77-6P, 4-[(3-Aminophenyl)[1-(2-

Updated Search

furylmethyl)piperidin-4-ylidene]methyl]-N,N-diethylbenzamide
 477185-79-8P 725229-84-5P, 4-[(3-Aminophenyl)[4-
 [(diethylamino)carbonyl]phenyl]methylene]-1-piperidinecarboxylic acid
 1,1-dimethylethyl ester 725229-85-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of diarylmethylidene piperidines as δ -opioid receptor
 ligands for the treatment of pain.)

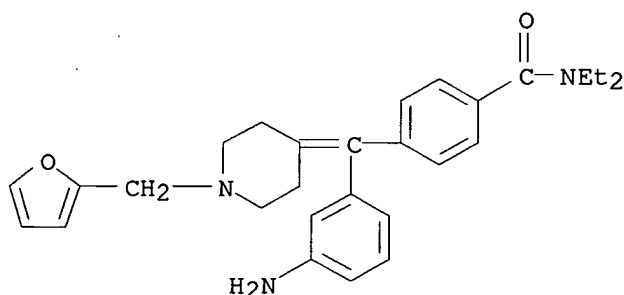
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CN Benzamide, 4-[(3-aminophenyl)[1-(phenylmethyl)-4-piperidinylidene]methyl]-
 N,N-diethyl- (CA INDEX NAME)



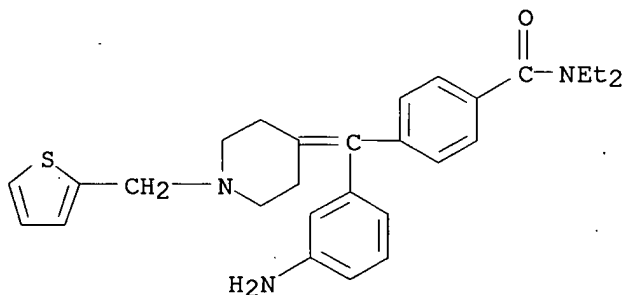
RN 477185-77-6 HCAPLUS

CN Benzamide, 4-[(3-aminophenyl)[1-(2-furanylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



RN 477185-79-8 HCAPLUS

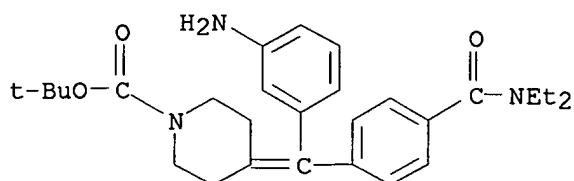
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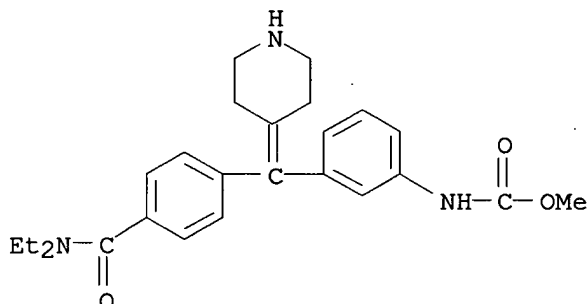
RN 725229-84-5 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[(3-aminophenyl)[4-
 [(diethylamino)carbonyl]phenyl]methylene]-, 1,1-dimethylethyl ester (CA
 INDEX NAME)

Updated Search



RN 725229-85-6 HCAPLUS
 CN Carbamic acid, [3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinyldenemethyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:412920 HCAPLUS
 DOCUMENT NUMBER: 140:423590
 TITLE: Preparation of 4-(phenylpiperidin-4-ylidenemethyl)benzamides for treatment of pain, anxiety, or gastrointestinal disorders
 INVENTOR(S): Brown, William; Griffin, Andrew
 PATENT ASSIGNEE(S): Astrazeneca AB, Swed.
 SOURCE: PCT Int. Appl., 96 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004041784	A1	20040521	WO 2003-SE1705	20031105
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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EP 1567496	A1	20050831	EP 2003-759165	20031105

Updated Search

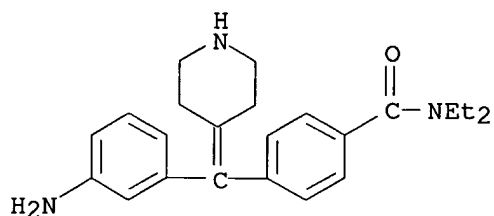
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 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 JP 2006514617 T 20060511 JP 2004-549774 20031105
 AT 359270 T 20070515 AT 2003-759165 20031105
 ES 2285179 T3 20071116 ES 2003-3759165 20031105
 US 2006014789 A1 20060119 US 2005-533838 20050504
 PRIORITY APPLN. INFO.: SE 2002-3301 A 20021107
 WO 2003-SE1705 W 20031105
 OTHER SOURCE(S): MARPAT 140:423590
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein R1 = (un)substituted alkyl, cycloalkyl(alkyl), (hetero)aryl, R8CO, R8SO2, R8SO, R8NHCO, R8CS, or R8NHCS; ; R2 = H or (un)substituted alkyl; R3 = H or (un)substituted alkoxy carbonyl, alkyl, or cycloalkyl(alkyl); R8 = (un)substituted alkyl, (hetero)aryl(alkyl), or cycloalkyl(alkyl); or pharmaceutically acceptable salts thereof] were prepared as opioid δ receptor ligands. For example, reaction of 4-(bromomethyl)benzoic acid Me ester with P(OMe)3, followed by addition of 1-(tert-butoxycarbonyl)-4-piperidone in the presence of LDA in THF, gave 4-(4-methoxycarbonylbenzylidene)piperidine-1-carboxylic acid tert-Bu ester (35%). Addition of Br2 (78%) and reaction with NaOH in MeOH provided 4-[bromo(4-carboxyphenyl)methylene]piperidine-1-carboxylic acid tert-Bu ester (87%). Conversion to the benzoyl chloride with iso-Bu chloroformate and amidation (73%) with Et2NH in the presence of TEA in CH2Cl2, followed by coupling with 3-aminophenylboronic acid using Pd(PPh3)4 and Na2CO3 in toluene/EtOH/H2O afforded N,N-diethyl-4-[(3-aminophenyl)(piperidin-4-ylidene)methyl]benzamide (97%). Alkylation of the amine with benzaldehyde and NaBH(OAc)3 in 1,2-dichloroethane gave II. In binding assays using human 293S cells expressing cloned human opioid receptors and neomycin resistance, most compds. of the invention exhibited activity toward the δ receptor with IC50 values in the range of 0.14 nM - 31.2 nM. Exemplified compds. also showed some activity toward the κ and μ receptors with IC50 values in the ranges of 36 nM - 9680 nM and 3 nM - 5975 nM, resp. Thus, I and their pharmaceutical compns. are useful in therapy, in particular for the treatment of gastrointestinal disorders, anxiety, or pain (no data).

IT 209807-69-2P, N,N-Diethyl-4-[(3-aminophenyl)(piperidin-4-ylidene)methyl]benzamide
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of (phenylpiperidinyldenemethyl)benzamides as δ receptor agonists for treatment of pain, anxiety, or gastrointestinal disorders)

RN 209807-69-2 HCAPLUS
 CN Benzamide, 4-[(3-aminophenyl)-4-piperidinyldenemethyl]-N,N-diethyl- (CA INDEX NAME)



IT 692245-00-4P 692245-02-6P 692245-04-8P
 692245-06-0P 692245-09-3P 692245-13-9P
 692245-17-3P 692245-21-9P 692245-25-3P
 692245-29-7P 692245-33-3P 692245-37-7P
 692245-41-3P 692245-45-7P 692245-49-1P
 692245-53-7P 692245-57-1P 692245-61-7P
 692245-65-1P 692245-69-5P 692245-73-1P
 692245-77-5P 692245-81-1P 692245-86-6P
 692245-90-2P 692245-94-6P 692245-98-0P
 692246-02-9P 692246-06-3P 692246-10-9P
 692246-14-3P 692246-18-7P 692246-22-3P
 692246-26-7P 692246-30-3P 692246-34-7P
 692246-38-1P 692246-46-1P 692246-50-7P
 692246-54-1P 692246-58-5P 692246-62-1P
 692246-66-5P 692246-78-9P 692246-82-5P
 692246-87-0P 692246-91-6P 692246-95-0P
 692246-99-4P 692247-03-3P 692247-07-7P
 692247-11-3P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(δ receptor agonist; preparation of (phenylpiperidinylidenemethyl)benz amides as δ receptor agonists for treatment of pain, anxiety, or gastrointestinal disorders)

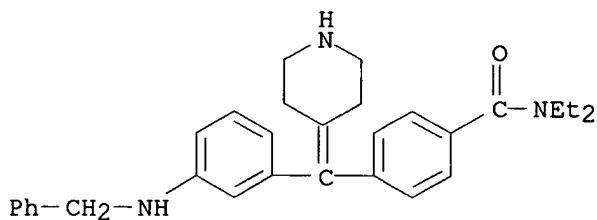
RN 692245-00-4 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[(phenylmethyl)amino]phenyl]-4-piperidinylidenemethyl]-, trifluoroacetate (10:27) (9CI) (CA INDEX NAME)

CM 1

CRN 692244-99-8

CMF C30 H35 N3 O

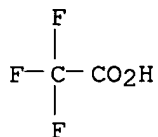


CM 2

CRN 76-05-1

CMF C2 H F3 O2

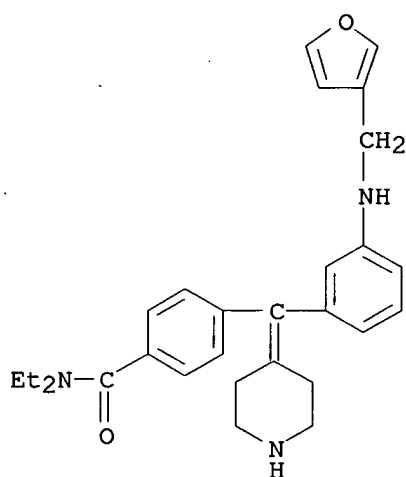
Updated Search



RN 692245-02-6 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-[(3-furanylmethyl)amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (10:21) (9CI) (CA INDEX NAME)

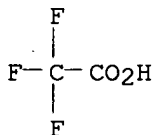
CM 1

CRN 692245-01-5
 CMF C28 H33 N3 O2



CM 2

CRN 76-05-1
 CMF C2 H F3 O2

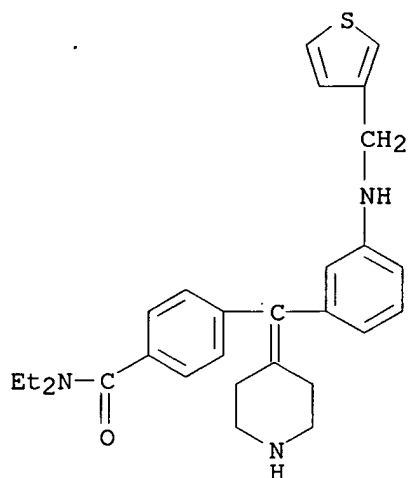


RN 692245-04-8 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[4-piperidinyldene[3-[(3-thienylmethyl)amino]phenyl]methyl]-, trifluoroacetate (5:12) (9CI) (CA INDEX NAME)

CM 1

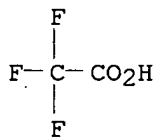
Updated Search

CRN 692245-03-7
CMF C28 H33 N3 O S



CM 2

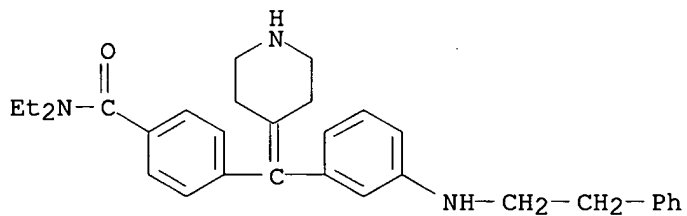
CRN 76-05-1
CMF C2 H F3 O2



RN 692245-06-0 HCAPLUS
CN Benzamide, N,N-diethyl-4-[[3-[(2-phenylethyl)amino]phenyl]-4-piperidinylidenemethyl]-, trifluoroacetate (2:5) (9CI) (CA INDEX NAME)

CM 1

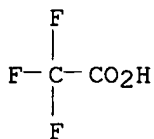
CRN 692245-05-9
CMF C31 H37 N3 O



CM 2

Updated Search

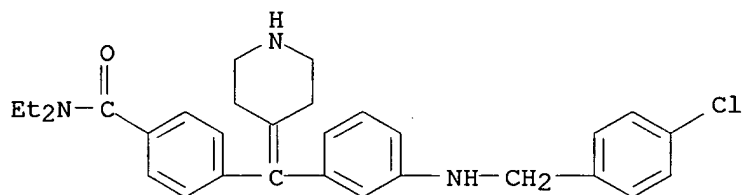
CRN 76-05-1
CMF C2 H F3 O2



RN 692245-09-3 HCAPLUS
CN Benzamide, 4-[[3-[[[4-chlorophenyl)methyl]amino]phenyl]-4-piperidinyldenemethyl]-N,N-diethyl-, trifluoroacetate (10:23) (9CI) (CA INDEX NAME)

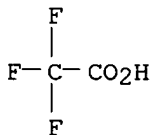
CM 1

CRN 692245-07-1
CMF C30 H34 Cl N3 O



CM 2

CRN 76-05-1
CMF C2 H F3 O2

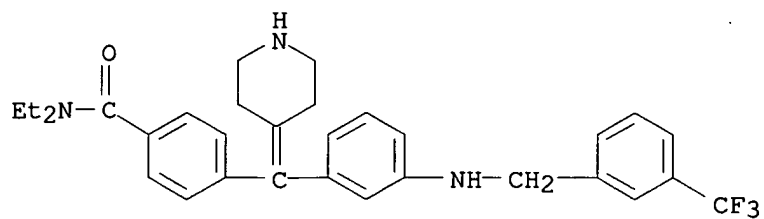


RN 692245-13-9 HCAPLUS
CN Benzamide, N,N-diethyl-4-[4-piperidinylidene[3-[[[3-(trifluoromethyl)phenyl)methyl]amino]phenyl]methyl]-, trifluoroacetate (5:11) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-11-7
CMF C31 H34 F3 N3 O

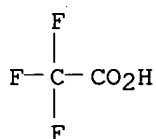
Updated Search



CM 2

CRN 76-05-1

CMF C2 H F3 O2



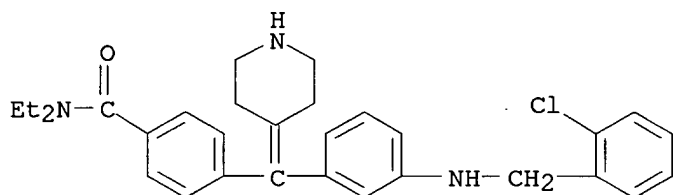
RN 692245-17-3 HCAPLUS

CN Benzamide, 4-[[3-[[[(2-chlorophenyl)methyl]amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (5:8) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-15-1

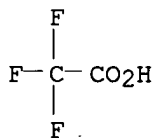
CMF C30 H34 Cl N3 O



CM 2

CRN 76-05-1

CMF C2 H F3 O2



RN 692245-21-9 HCAPLUS

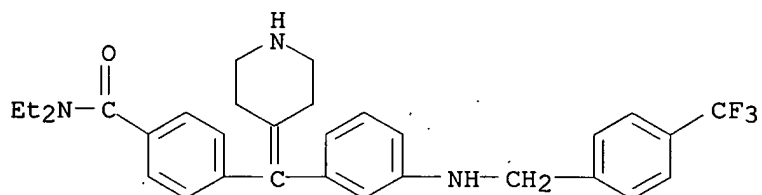
Updated Search

CN Benzamide, N,N-diethyl-4-[4-piperidinylidene[3-[[[4-(trifluoromethyl)phenyl]methyl]amino]phenyl]methyl]-, trifluoroacetate (10:21) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-19-5

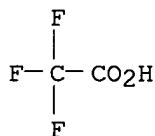
CMF C31 H34 F3 N3 O



CM 2

CRN 76-05-1

CMF C2 H F3 O2



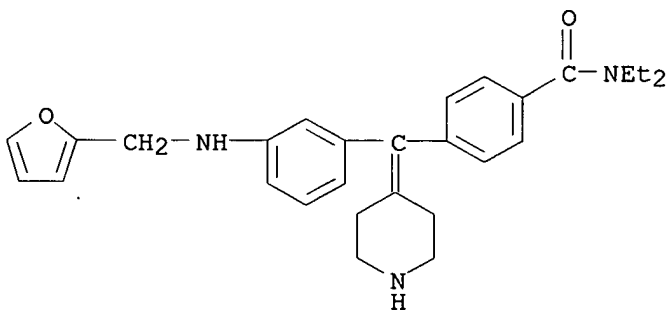
RN 692245-25-3 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[(2-furanylmethyl)amino]phenyl]-4-piperidinylidenemethyl]-, trifluoroacetate (10:23) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-23-1

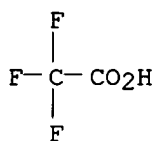
CMF C28 H33 N3 O2



CM 2

Updated Search

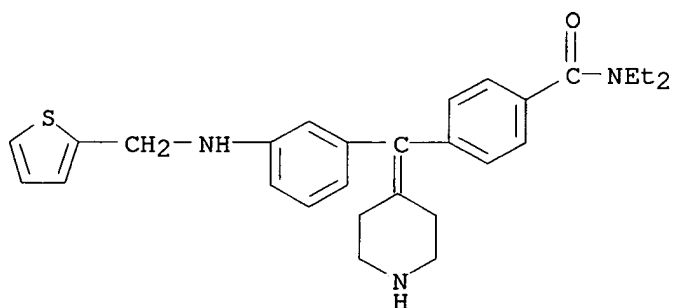
CRN 76-05-1
CMF C2 H F3 O2



RN 692245-29-7 HCAPLUS
CN Benzamide, N,N-diethyl-4-[4-piperidinylidene[3-[(2-thienylmethyl)amino]phenyl]methyl]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

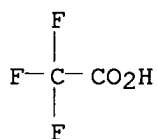
CM 1

CRN 692245-27-5
CMF C28 H33 N3 O S



CM 2

CRN 76-05-1
CMF C2 H F3 O2

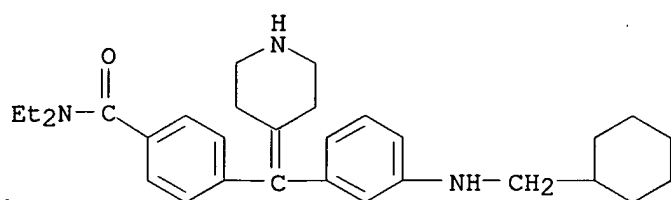


RN 692245-33-3 HCAPLUS
CN Benzamide, 4-[[3-[(cyclohexylmethyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (10:23) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-31-1
CMF C30 H41 N3 O

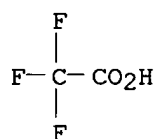
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CM 2

CRN 76-05-1

CMF C2 H F3 O2



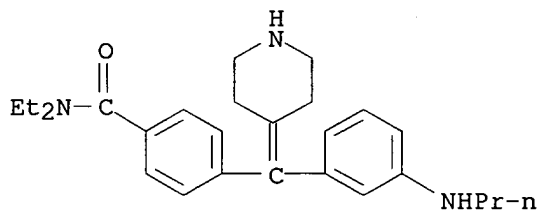
RN 692245-37-7 HCAPLUS

CN Benzamide, N,N-diethyl-4-[4-piperidinylidene[3-(propylamino)phenyl]methyl]-, trifluoroacetate (10:29) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-35-5

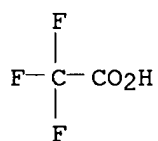
CMF C26 H35 N3 O



CM 2

CRN 76-05-1

CMF C2 H F3 O2



RN 692245-41-3 HCAPLUS

CN Benzamide, 4-[[3-(cyclohexylamino)phenyl]-4-piperidinylidenemethyl]-N,N-

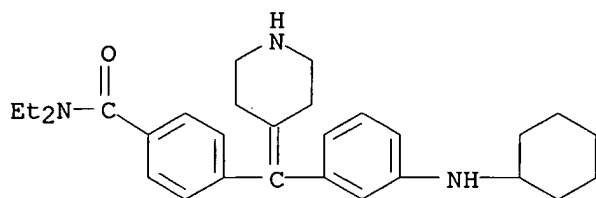
Updated Search

diethyl-, trifluoroacetate (2:5) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-39-9

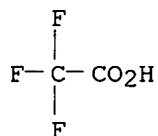
CMF C29 H39 N3 O



CM 2

CRN 76-05-1

CMF C2 H F3 O2



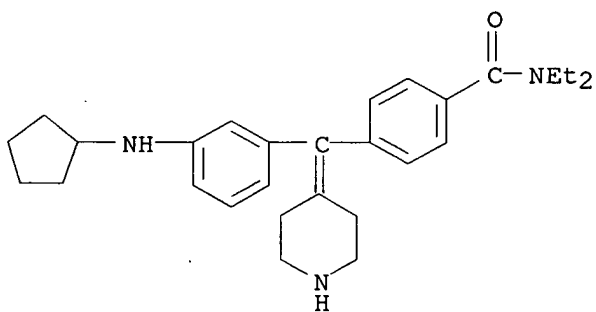
RN 692245-45-7 HCAPLUS

CN Benzamide, 4-[[3-(cyclopentylamino)phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (10:23) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-43-5

CMF C28 H37 N3 O

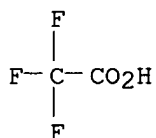


CM 2

CRN 76-05-1

CMF C2 H F3 O2

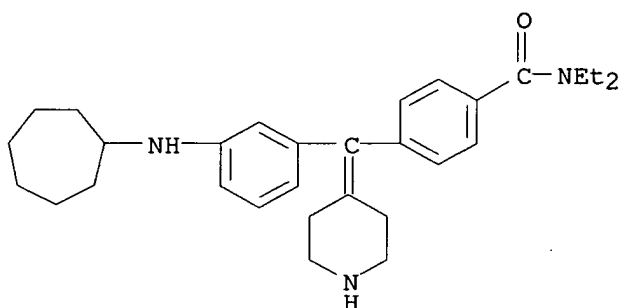
Updated Search



RN 692245-49-1 HCAPLUS
 CN Benzamide, 4-[[3-(cycloheptylamino)phenyl]-4-piperidinyldenemethyl]-N,N-diethyl-, trifluoroacetate (2:5) (9CI) (CA INDEX NAME)

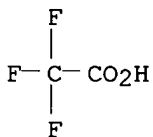
CM 1

CRN 692245-47-9
 CMF C30 H41 N3 O



CM 2

CRN 76-05-1
 CMF C2 H F3 O2

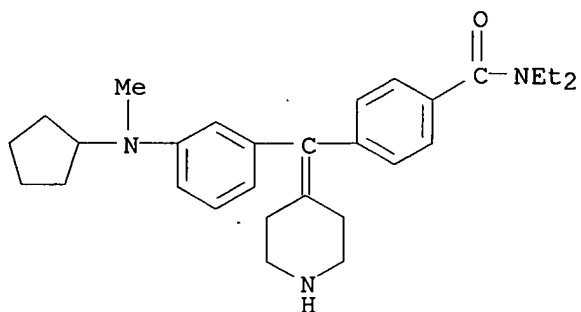


RN 692245-53-7 HCAPLUS
 CN Benzamide, 4-[[3-(cyclopentylmethylamino)phenyl]-4-piperidinyldenemethyl]-N,N-diethyl-, trifluoroacetate (5:14) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-51-5
 CMF C29 H39 N3 O

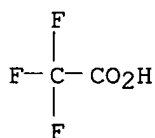
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CM 2

CRN 76-05-1

CMF C2 H F3 O2



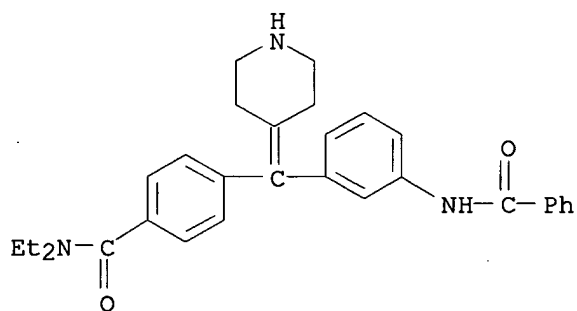
RN 692245-57-1 HCAPLUS

CN Benzamide, 4-[[3-(benzoylamino)phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (5:7) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-55-9

CMF C30 H33 N3 O2

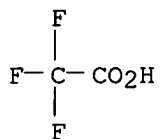


CM 2

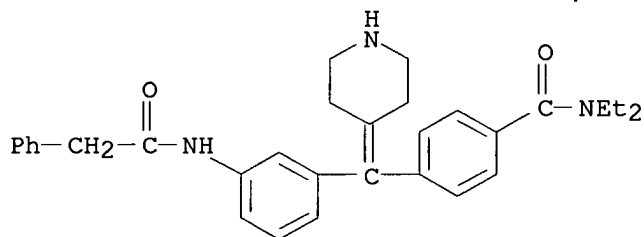
CRN 76-05-1

CMF C2 H F3 O2

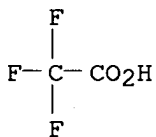
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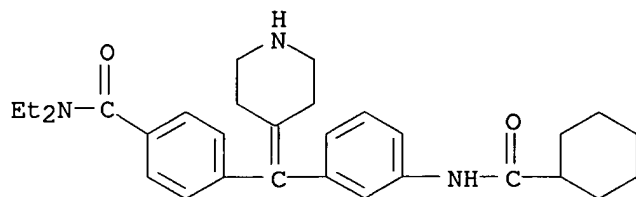
RN 692245-61-7 HCAPLUS
 CN Benzeneacetamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinyldenemethyl]phenyl]-, trifluoroacetate (5:9) (9CI) (CA INDEX NAME)
 CM 1
 CRN 692245-59-3
 CMF C31 H35 N3 O2



CM 2
 CRN 76-05-1
 CMF C2 H F3 O2



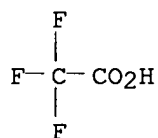
RN 692245-65-1 HCAPLUS
 CN Benzamide, 4-[[3-[(cyclohexylcarbonyl)amino]phenyl]-4-piperidinyldenemethyl]-N,N-diethyl-, trifluoroacetate (5:8) (9CI) (CA INDEX NAME)
 CM 1
 CRN 692245-63-9
 CMF C30 H39 N3 O2



CM 2

CRN 76-05-1

CMF C2 H F3 O2



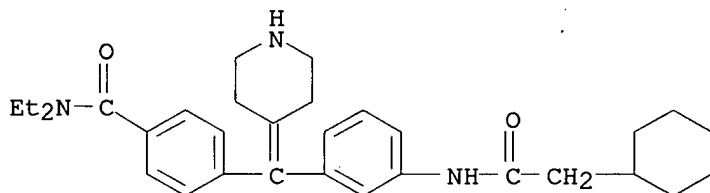
RN 692245-69-5 HCAPLUS

CN Benzamide, 4-[[3-[(cyclohexylacetyl)amino]phenyl]-4-piperidinyldenemethyl]-N,N-diethyl-, trifluoroacetate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-67-3

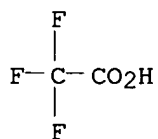
CMF C31 H41 N3 O2



CM 2

CRN 76-05-1

CMF C2 H F3 O2



RN 692245-73-1 HCAPLUS

CN Benzeneacetamide, 2-chloro-N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-

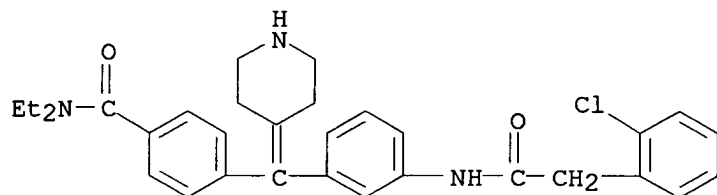
Updated Search

piperidinyldenemethyl]phenyl]-, trifluoroacetate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-71-9

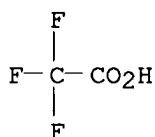
CMF C31 H34 Cl N3 O2



CM 2

CRN 76-05-1

CMF C2 H F3 O2



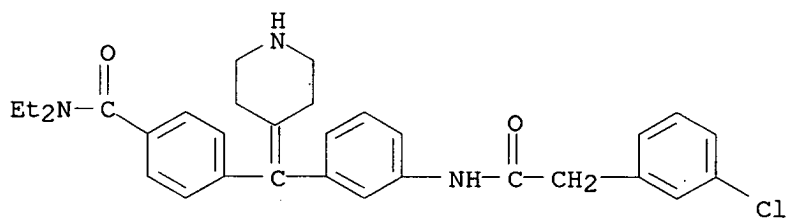
RN 692245-77-5 HCAPLUS

CN Benzeneacetamide, 3-chloro-N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinyldenemethyl]phenyl]-, trifluoroacetate (5:8) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-75-3

CMF C31 H34 Cl N3 O2

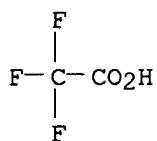


CM 2

CRN 76-05-1

CMF C2 H F3 O2

Updated Search



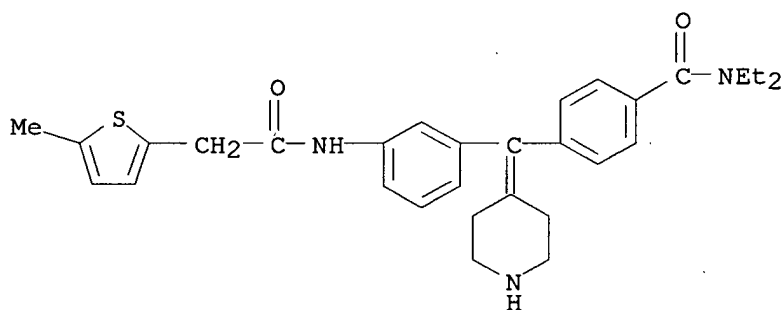
RN 692245-81-1 HCAPLUS

CN 2-Thiopheneacetamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]-5-methyl-, trifluoroacetate (5:6) (9CI)
(CA INDEX NAME)

CM 1

CRN 692245-79-7

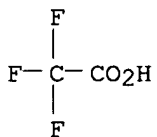
CMF C30 H35 N3 O2 S



CM 2

CRN 76-05-1

CMF C2 H F3 O2



RN 692245-86-6 HCAPLUS

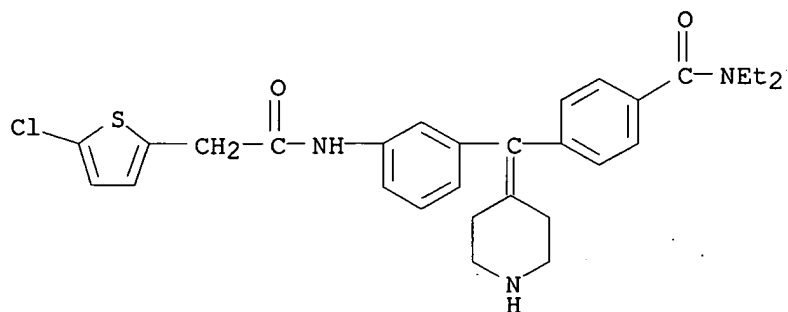
CN 2-Thiopheneacetamide, 5-chloro-N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]-, trifluoroacetate (5:8) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-84-4

CMF C29 H32 Cl N3 O2 S

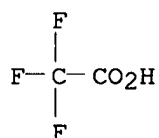
Updated Search



CM 2

CRN 76-05-1

CMF C2 H F3 O2



RN 692245-90-2 HCAPLUS

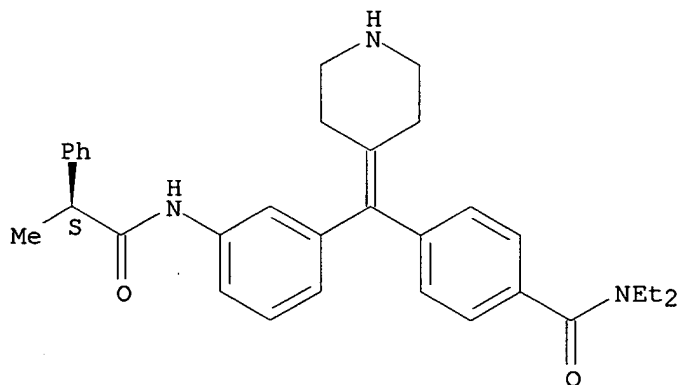
CN Benzeneacetamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]- α -methyl-, (α S)-, trifluoroacetate (5:8) (9CI) (CA INDEX NAME)

CM 1

CRN 692245-88-8

CMF C32 H37 N3 O2

Absolute stereochemistry.

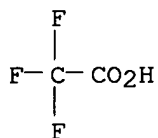


CM 2

CRN 76-05-1

Updated Search

CMF C2 H F3 O2

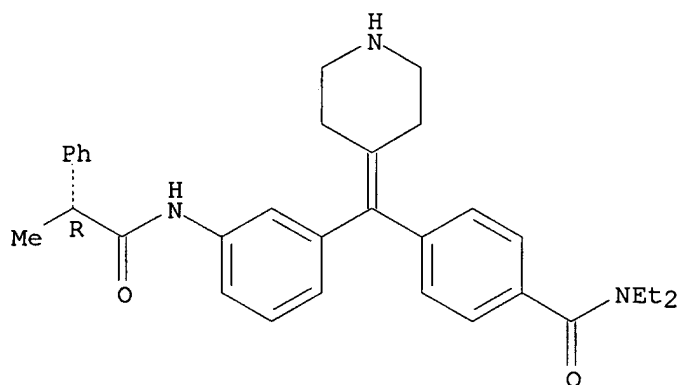


RN 692245-94-6 HCAPLUS
CN Benzeneacetamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]- α -methyl-, (α R)-, trifluoroacetate (10:17) (9CI) (CA INDEX NAME)

CM 1

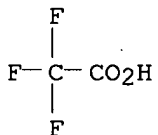
CRN 692245-92-4
CMF C32 H37 N3 O2

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2



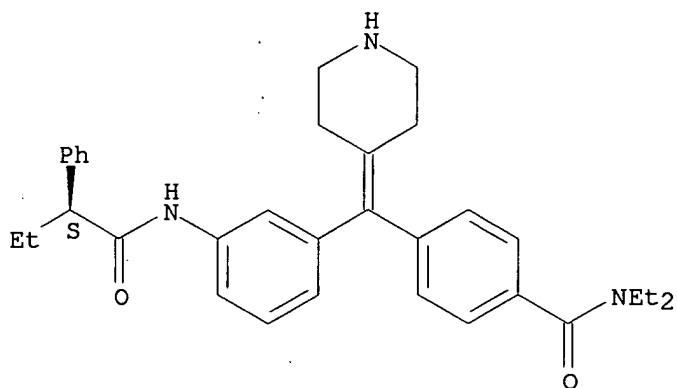
RN 692245-98-0 HCAPLUS
CN Benzeneacetamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]- α -ethyl-, (α S)-, trifluoroacetate (5:18) (9CI) (CA INDEX NAME)

CM 1

Updated Search

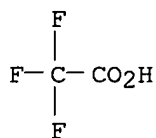
CRN 692245-96-8
CMF C33 H39 N3 O2

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H, F3 O2



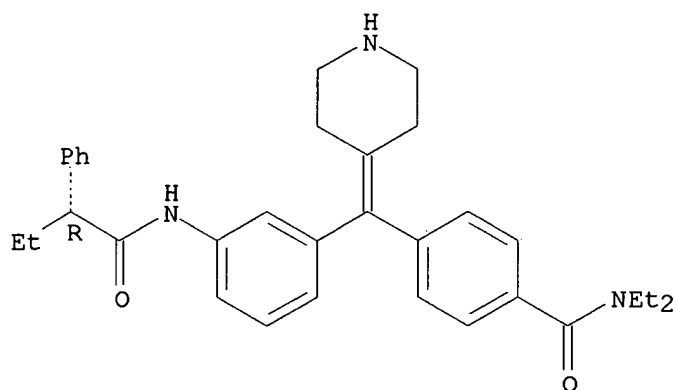
RN 692246-02-9 HCAPLUS
CN Benzeneacetamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]- α -ethyl-, (α R)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 692246-00-7
CMF C33 H39 N3 O2

Absolute stereochemistry.

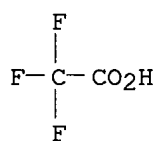
Updated Search



CM 2

CRN 76-05-1

CMF C2 H F3 O2



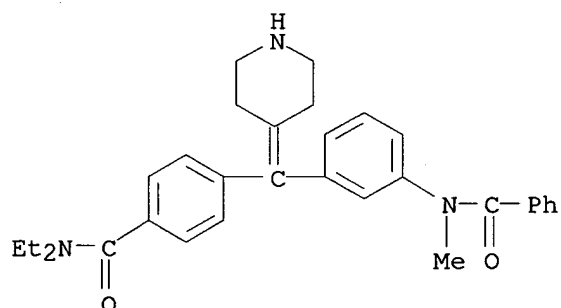
RN 692246-06-3 HCAPLUS

CN Benzamide, 4-[[3-(benzoylmethylamino)phenyl]-4-piperidinylidenemethyl]-N,N-diethyl-, trifluoroacetate (5:13) (9CI) (CA INDEX NAME)

CM 1

CRN 692246-04-1

CMF C31 H35 N3 O2

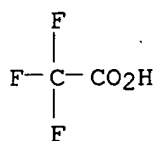


CM 2

CRN 76-05-1

CMF C2 H F3 O2

Updated Search



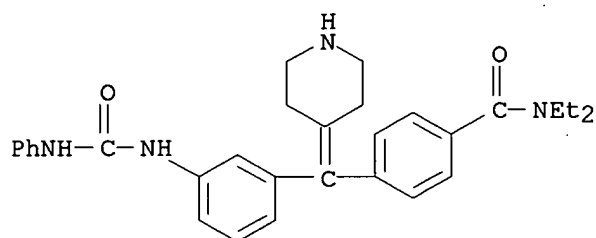
RN 692246-10-9 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[[[(phenylamino)carbonyl]amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (5:7) (9CI) (CA INDEX NAME)

CM 1

CRN 692246-08-5

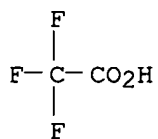
CMF C30 H34 N4 O2



CM 2

CRN 76-05-1

CMF C2 H F3 O2



RN 692246-14-3 HCAPLUS

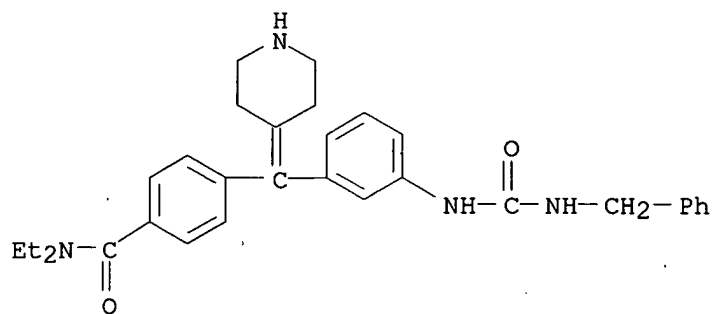
CN Benzamide, N,N-diethyl-4-[[3-[[[(phenylmethyl)amino]carbonyl]amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (5:7) (9CI) (CA INDEX NAME)

CM 1

CRN 692246-12-1

CMF C31 H36 N4 O2

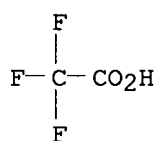
Updated Search



CM 2

CRN 76-05-1

CMF C2 H F3 O2



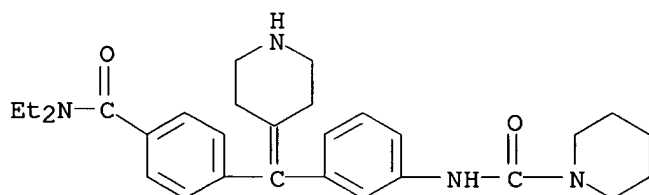
RN 692246-18-7 HCAPLUS

CN 1-Piperidinecarboxamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]-, trifluoroacetate (5:9) (9CI) (CA INDEX NAME)

CM 1

CRN 692246-16-5

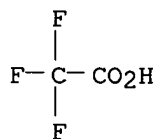
CMF C29 H38 N4 O2



CM 2

CRN 76-05-1

CMF C2 H F3 O2

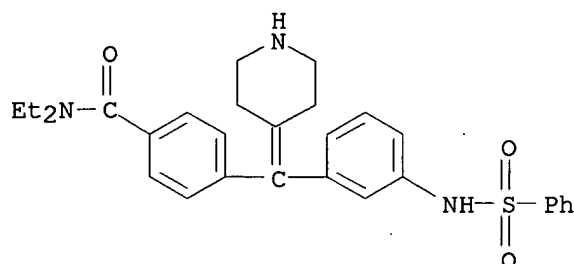


Updated Search

RN 692246-22-3 HCAPLUS
CN Benzamide, N,N-diethyl-4-[[3-[(phenylsulfonyl)amino]phenyl]-4-piperidinyldenemethyl]-, tetrakis(trifluoroacetate) (9CI) (CA INDEX NAME)

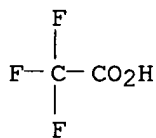
CM 1

CRN 692246-20-1
CMF C29 H33 N3 O3 S



CM 2

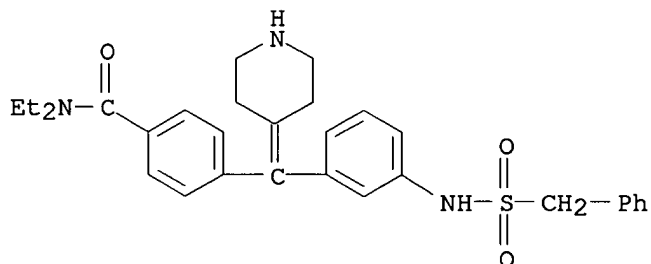
CRN 76-05-1
CMF C2 H F3 O2



RN 692246-26-7 HCAPLUS
CN Benzamide, N,N-diethyl-4-[[3-[[[(phenylmethyl)sulfonyl]amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (5:14) (9CI) (CA INDEX NAME)

CM 1

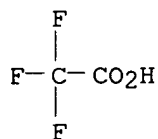
CRN 692246-24-5
CMF C30 H35 N3 O3 S



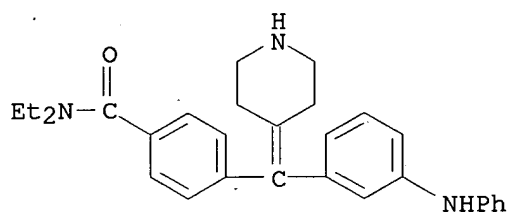
CM 2

Updated Search

CRN 76-05-1
CMF C2 H F3 O2



RN 692246-30-3 HCAPLUS
CN Benzamide, N,N-diethyl-4-[[3-(phenylamino)phenyl]-4-piperidinyldenemethyl]-, hydrochloride (5:6) (CA INDEX NAME)

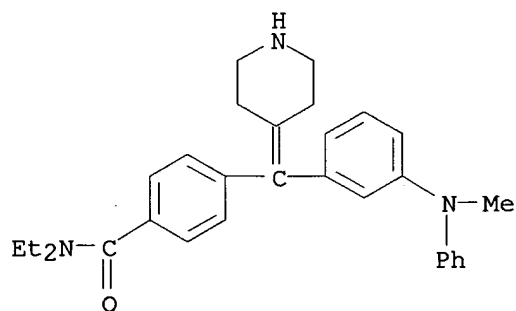


●6/5 HCl

RN 692246-34-7 HCAPLUS
CN Benzamide, N,N-diethyl-4-[[3-(methylphenylamino)phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (10:13) (9CI) (CA INDEX NAME)

CM 1

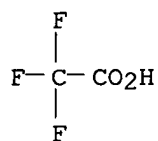
CRN 692246-32-5
CMF C30 H35 N3 O



CM 2

CRN 76-05-1
CMF C2 H F3 O2

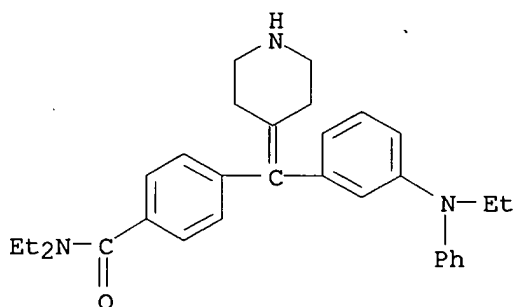
Updated Search



RN 692246-38-1 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-(ethylphenylamino)phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (2:3) (9CI) (CA INDEX NAME)

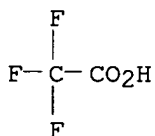
CM 1

CRN 692246-36-9
 CMF C31 H37 N3 O



CM 2

CRN 76-05-1
 CMF C2 H F3 O2



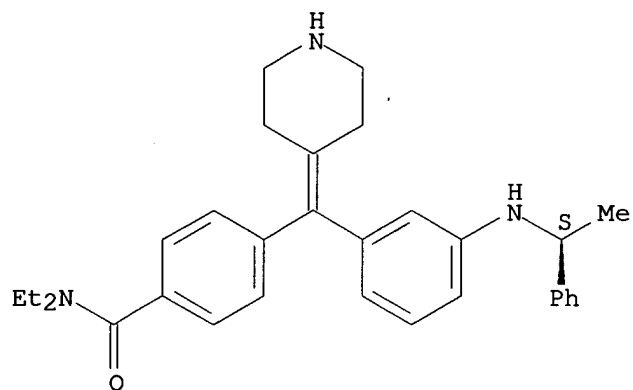
RN 692246-46-1 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-[[[(1S)-1-phenylethyl]amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (5:11) (9CI) (CA INDEX NAME)

CM 1

CRN 692246-44-9
 CMF C31 H37 N3 O

Absolute stereochemistry.

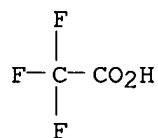
Updated Search



CM 2

CRN 76-05-1

CMF C2 H F3 O2



RN 692246-50-7 HCAPLUS

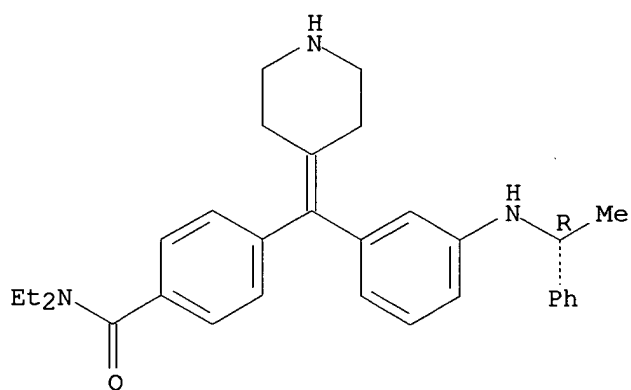
CN Benzamide, N,N-diethyl-4-[[3-[[[(1R)-1-phenylethyl]amino]phenyl]-4-piperidinylidenemethyl]-, trifluoroacetate (10:37) (9CI) (CA INDEX NAME)

CM 1

CRN 692246-48-3

CMF C31 H37 N3 O

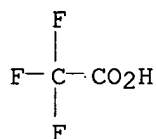
Absolute stereochemistry.



CM 2

Updated Search

CRN 76-05-1
CMF C2 H F3 O2

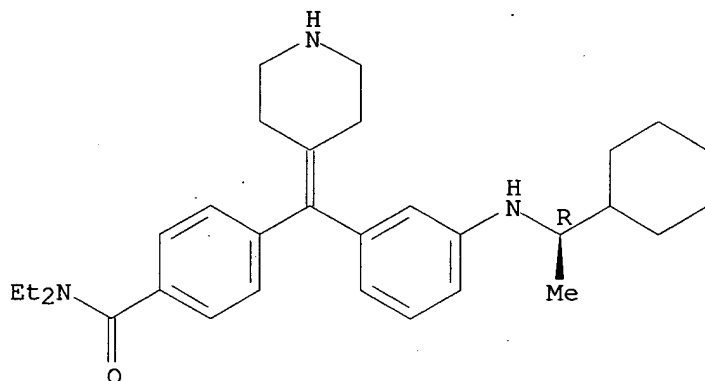


RN 692246-54-1 HCAPLUS
CN Benzamide, 4-[[3-[[[(1R)-1-cyclohexylethyl]amino]phenyl]-4-piperidinyldenemethyl]-N,N-diethyl-, trifluoroacetate (5:11) (9CI) (CA INDEX NAME)

CM 1

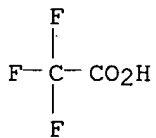
CRN 692246-52-9
CMF C31 H43 N3 O

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2



RN 692246-58-5 HCAPLUS
CN Benzamide, 4-[[3-[[[(1S)-1-cyclohexylethyl]amino]phenyl]-4-piperidinyldenemethyl]-N,N-diethyl-, trifluoroacetate (10:19) (9CI) (CA INDEX NAME)

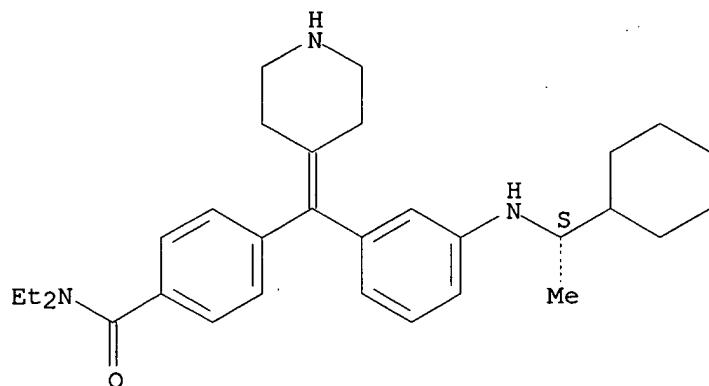
Updated Search

CM 1

CRN 692246-56-3

CMF C31 H43 N3 O

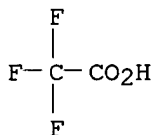
Absolute stereochemistry.



CM 2

CRN 76-05-1

CMF C2 H F3 O2



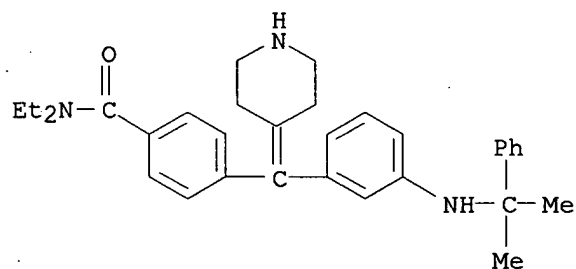
RN 692246-62-1 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[(1-methyl-1-phenylethyl)amino]phenyl]-4-piperidinylidenemethyl]-, trifluoroacetate (10:29) (9CI) (CA INDEX NAME)

CM 1

CRN 692246-60-9

CMF C32 H39 N3 O

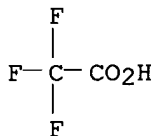


Updated Search

CM 2

CRN 76-05-1

CMF C2 H F3 O2



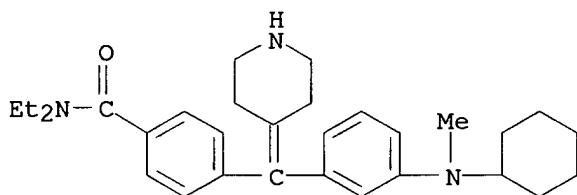
RN 692246-66-5 HCAPLUS

CN Benzamide, 4-[[3-(cyclohexylmethylamino)phenyl]-4-piperidinyldenemethyl]-N,N-diethyl-, trifluoroacetate (5:18) (9CI) (CA INDEX NAME)

CM 1

CRN 692246-64-3

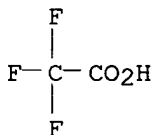
CMF C30 H41 N3 O



CM 2

CRN 76-05-1

CMF C2 H F3 O2



RN 692246-78-9 HCAPLUS

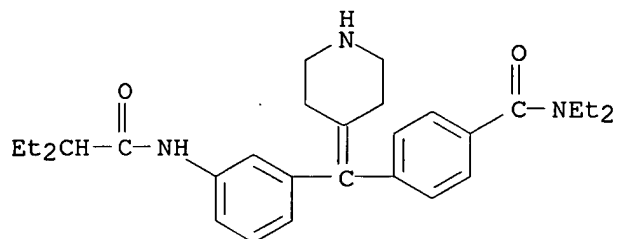
CN Benzamide, N,N-diethyl-4-[[3-[(2-ethyl-1-oxobutyl)amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (5:9) (9CI) (CA INDEX NAME)

CM 1

CRN 692246-76-7

CMF C29 H39 N3 O2

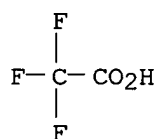
Updated Search



CM 2

CRN 76-05-1

CMF C2 H F3 O2



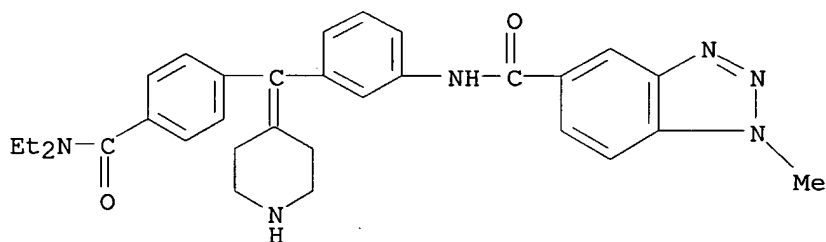
RN 692246-82-5 HCAPLUS

CN 1H-Benzotriazole-5-carboxamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]-1-methyl-, trifluoroacetate (10:11) (9CI)
(CA INDEX NAME)

CM 1

CRN 692246-80-3

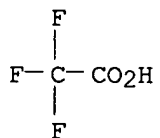
CMF C31 H34 N6 O2



CM 2

CRN 76-05-1

CMF C2 H F3 O2

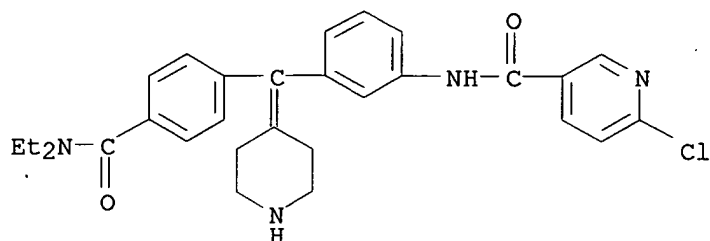


Updated Search

RN 692246-87-0 HCAPLUS
 CN 3-Pyridinecarboxamide, 6-chloro-N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinyliDENemethyl]phenyl]-, trifluoroacetate (10:11) (9CI) (CA INDEX NAME)

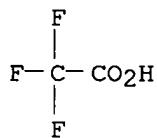
CM 1

CRN 692246-85-8
 CMF C29 H31 Cl N4 O2



CM 2

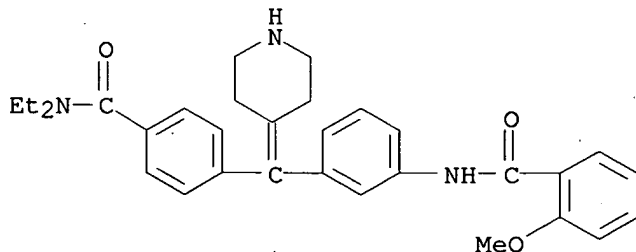
CRN 76-05-1
 CMF C2 H F3 O2



RN 692246-91-6 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-[(2-methoxybenzoyl)amino]phenyl]-4-piperidinyliDENemethyl]-, trifluoroacetate (10:11) (9CI) (CA INDEX NAME)

CM 1

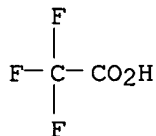
CRN 692246-89-2
 CMF C31 H35 N3 O3



CM 2

Updated Search

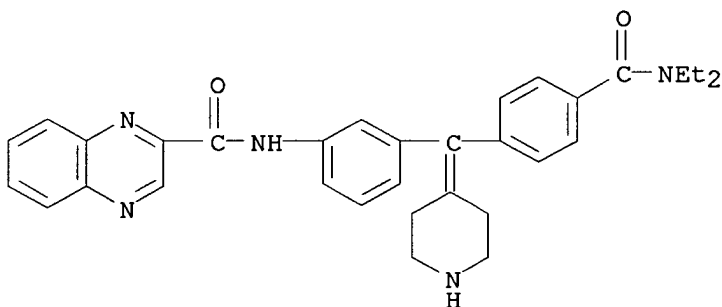
CRN 76-05-1
CMF C2 H F3 O2



RN 692246-95-0 HCAPLUS
CN 2-Quinoxalinecarboxamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]-, trifluoroacetate (10:11) (9CI) (CA INDEX NAME)

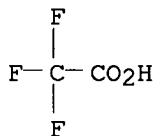
CM 1

CRN 692246-93-8
CMF C32 H33 N5 O2



CM 2

CRN 76-05-1
CMF C2 H F3 O2

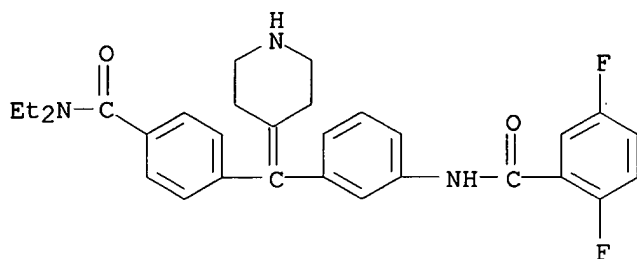


RN 692246-99-4 HCAPLUS
CN Benzamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]-2,5-difluoro-, trifluoroacetate (10:11) (9CI) (CA INDEX NAME)

CM 1

CRN 692246-97-2
CMF C30 H31 F2 N3 O2

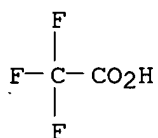
Updated Search



CM 2

CRN 76-05-1

CMF C2 H F3 O2



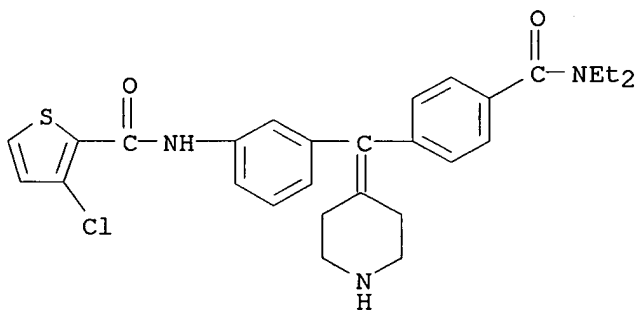
RN 692247-03-3 HCAPLUS

CN 2-Thiophenecarboxamide, 3-chloro-N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]-, trifluoroacetate (10:11) (9CI) (CA INDEX NAME)

CM 1

CRN 692247-01-1

CMF C28 H30 Cl N3 O2 S

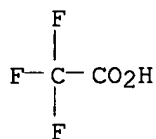


CM 2

CRN 76-05-1

CMF C2 H F3 O2

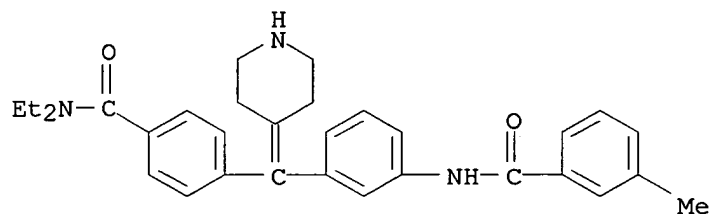
Updated Search



RN 692247-07-7 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-[(3-methylbenzoyl)amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (10:11) (9CI) (CA INDEX NAME)

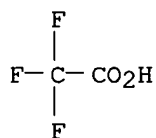
CM 1

CRN 692247-05-5
 CMF C31 H35 N3 O2



CM 2

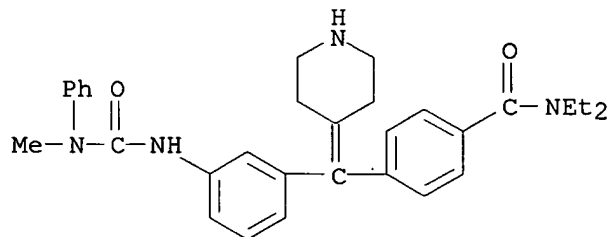
CRN 76-05-1
 CMF C2 H F3 O2



RN 692247-11-3 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-[[[(methylphenylamino)carbonyl]amino]phenyl]-4-piperidinyldenemethyl]-, trifluoroacetate (5:9) (9CI) (CA INDEX NAME)

CM 1

CRN 692247-09-9
 CMF C31 H36 N4 O2

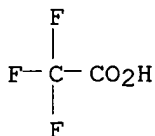


Updated Search

CM 2

CRN 76-05-1

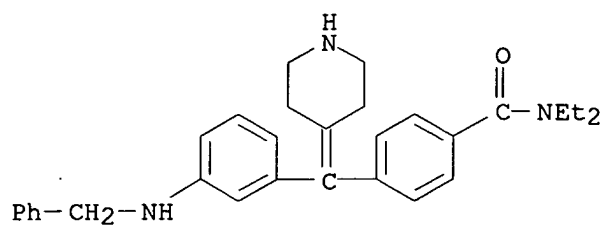
CMF C2 H F3 O2



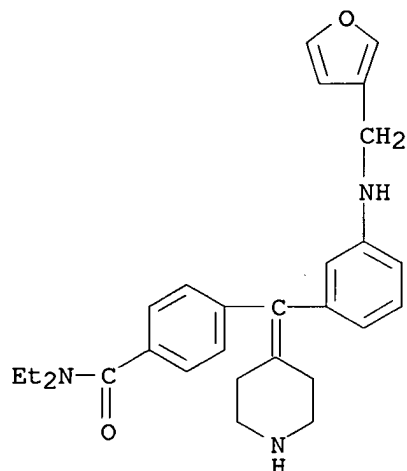
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Updated Search

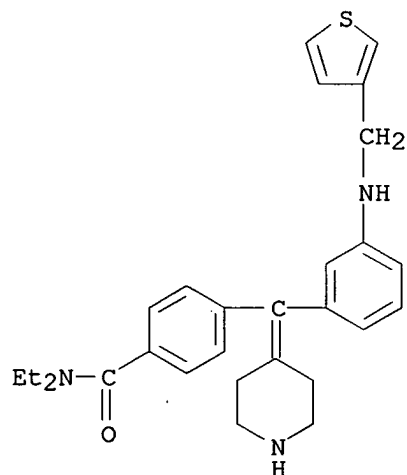
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692246-00-7P, (R)-N,N-Diethyl-4-[[3-[(2-phenylbutanoyl)amino]phenyl](piperidin-4-ylidene)methyl]benzamide
692246-04-1P, 4-[[3-[Benzoyl(methyl)amino]phenyl](piperidin-4-ylidene)methyl]-N,N-diethylbenzamide 692246-08-5P,
4-[[3-[(Anilino)carbonyl]amino]phenyl](piperidin-4-ylidene)methyl]-N,N-diethylbenzamide 692246-12-1P, 4-[[3-[[[(Benzylamino)carbonyl]amino]phenyl](piperidin-4-ylidene)methyl]-N,N-diethylbenzamide 692246-16-5P, N-[3-[[4-[(Diethylamino)carbonyl]phenyl](piperidin-4-ylidene)methyl]phenyl]piperidine-1-carboxamide 692246-20-1P, N,N-Diethyl-4-[[3-[(phenylsulfonyl)amino]phenyl](piperidin-4-ylidene)methyl]benzamide 692246-24-5P, 4-[[3-[(Benzylsulfonyl)amino]phenyl](piperidin-4-ylidene)methyl]-N,N-diethylbenzamide 692246-28-9P, 4-[(3-Anilinophenyl)(piperidin-4-ylidene)methyl]-N,N-diethylbenzamide 692246-32-5P, N,N-Diethyl-4-[[3-[methyl(phenyl)amino]phenyl](piperidin-4-ylidene)methyl]benzamide 692246-36-9P, N,N-Diethyl-4-[[3-[ethyl(phenyl)amino]phenyl](piperidin-4-ylidene)methyl]benzamide 692246-44-9P, (S)-N,N-Diethyl-4-[[3-[(1-phenylethyl)amino]phenyl](piperidin-4-ylidene)methyl]benzamide 692246-48-3P, (R)-N,N-Diethyl-4-[[3-[(1-phenylethyl)amino]phenyl](piperidin-4-ylidene)methyl]benzamide 692246-52-9P, (R)-4-[[3-[(1-Cyclohexylethyl)amino]phenyl](piperidin-4-ylidene)methyl]-N,N-diethylbenzamide 692246-56-3P, (S)-4-[[3-[(1-Cyclohexylethyl)amino]phenyl](piperidin-4-ylidene)methyl]-N,N-diethylbenzamide 692246-60-9P, N,N-Diethyl-4-[[3-[(1-methyl-1-phenylethyl)amino]phenyl](piperidin-4-ylidene)methyl]benzamide 692246-64-3P, 4-[[3-[Cyclohexyl(methyl)amino]phenyl](piperidin-4-ylidene)methyl]-N,N-diethylbenzamide 692246-76-7P, N,N-Diethyl-4-[[3-[(2-ethyl-1-oxobutyl)amino]phenyl]-4-piperidinyldenemethyl]benzamide 692246-80-3P 692246-85-8P*
** , 6-Chloro-N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinyldenemethyl]phenyl]-3-pyridinecarboxamide ***692246-89-2P
, N-[3-[[4-[(Diethylamino)carbonyl]phenyl]-4-piperidinyldenemethyl]phenyl]-2-methoxybenzamide 692246-93-8P, N-[3-[[4-[(Diethylamino)carbonyl]phenyl]-4-piperidinyldenemethyl]phenyl]-2-quinoxalinecarboxamide 692246-97-2P, N-[3-[[4-[(Diethylamino)carbonyl]phenyl]-4-piperidinyldenemethyl]phenyl]-2,5-difluorobenzamide 692247-01-1P, 3-Chloro-N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinyldenemethyl]phenyl]-2-thiophenecarboxamide 692247-05-5P, N-[3-[[4-[(Diethylamino)carbonyl]phenyl]-4-piperidinyldenemethyl]phenyl]-3-methylbenzamide 692247-09-9P, N,N-Diethyl-4-[[3-[[[methyl(phenyl)amino]carbonyl]amino]phenyl]-4-piperidinyldenemethyl]benzamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(δ receptor agonist; preparation of (phenylpiperidinyldenemethyl)benzamides as δ receptor agonists for treatment of pain, anxiety, or gastrointestinal disorders)
RN 692244-99-8 HCAPLUS
CN Benzamide, N,N-diethyl-4-[[3-[(phenylmethyl)amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



RN 692245-01-5 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-[(3-furanylmethyl)amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



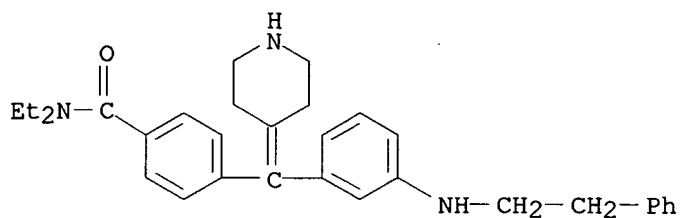
RN 692245-03-7 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[4-piperidinylidene[3-[(3-thienylmethyl)amino]phenyl]methyl]- (CA INDEX NAME)



RN 692245-05-9 HCAPLUS

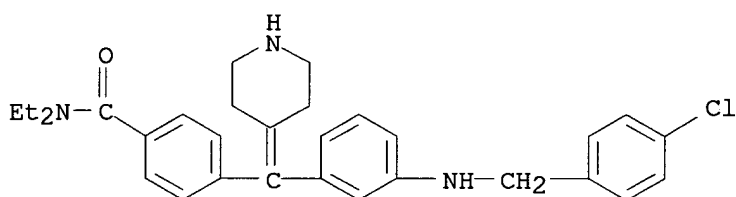
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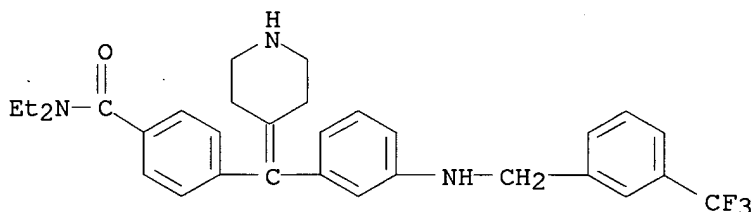
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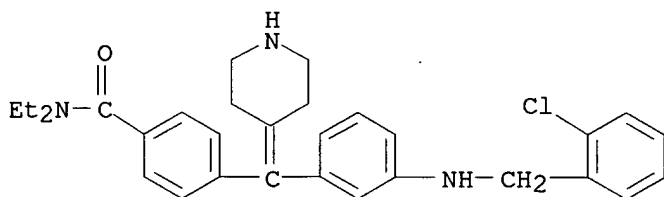
RN 692245-11-7 HCAPLUS

CN Benzamide, N,N-diethyl-4-[4-piperidinyldene[3-[[[3-(trifluoromethyl)phenyl)methyl]amino]phenyl]methyl]- (CA INDEX NAME)



RN 692245-15-1 HCAPLUS

CN Benzamide, 4-[[3-[[2-chlorophenyl)methyl]amino]phenyl]-4-piperidinyldenemethyl]-N,N-diethyl- (CA INDEX NAME)

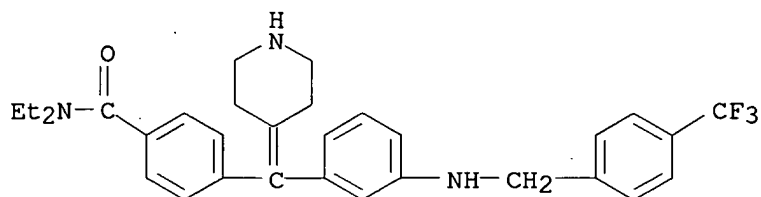


RN 692245-19-5 HCAPLUS

CN Benzamide, N,N-diethyl-4-[4-piperidinyldene[3-[[[4-

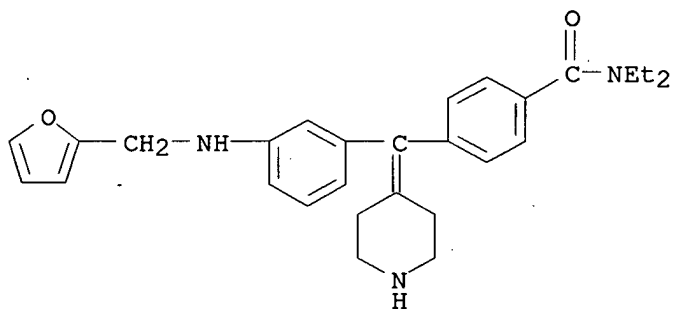
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(trifluoromethyl)phenyl)methyl]amino]phenyl)methyl]- (CA INDEX NAME)



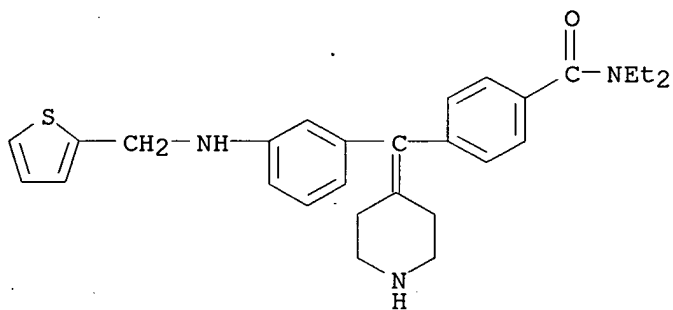
RN 692245-23-1 HCAPLUS

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RN 692245-27-5 HCAPLUS

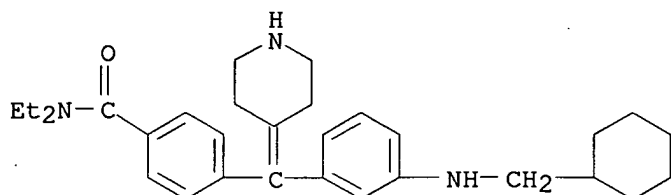
CN Benzamide, N,N-diethyl-4-[4-piperidinylidene[3-[(2-thienylmethyl)amino]phenyl]methyl]- (CA INDEX NAME)



RN 692245-31-1 HCAPLUS

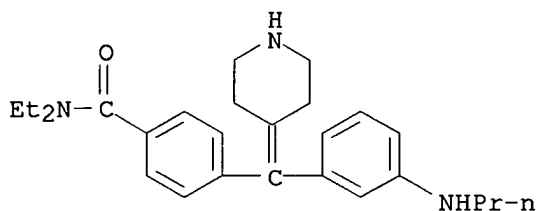
CN Benzamide, 4-[[3-[(cyclohexylmethyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl- (CA INDEX NAME)

Updated Search



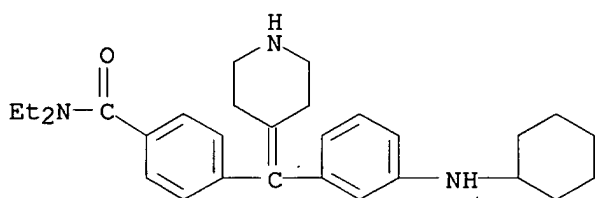
RN 692245-35-5 HCAPLUS

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(CA INDEX NAME)



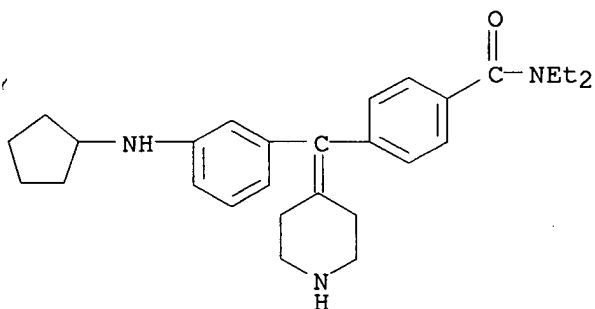
RN 692245-39-9 HCAPLUS

CN Benzamide, 4-[[3-(cyclohexylamino)phenyl]-4-piperidinylidenemethyl]-N,N-
diethyl- (CA INDEX NAME)



RN 692245-43-5 HCAPLUS

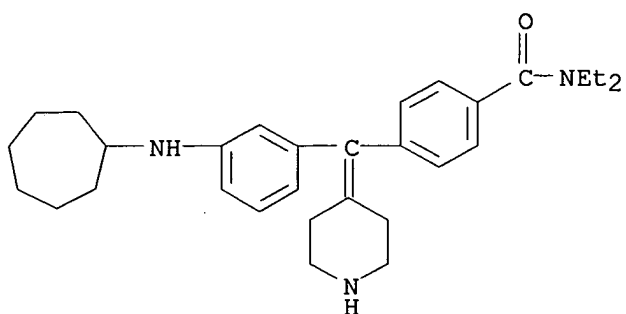
CN Benzamide, 4-[[3-(cyclopentylamino)phenyl]-4-piperidinylidenemethyl]-N,N-
diethyl- (CA INDEX NAME)



RN 692245-47-9 HCAPLUS

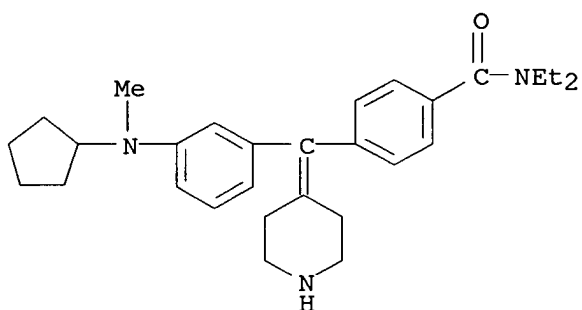
CN Benzamide, 4-[[3-(cycloheptylamino)phenyl]-4-piperidinylidenemethyl]-N,N-
diethyl- (CA INDEX NAME)

Updated Search



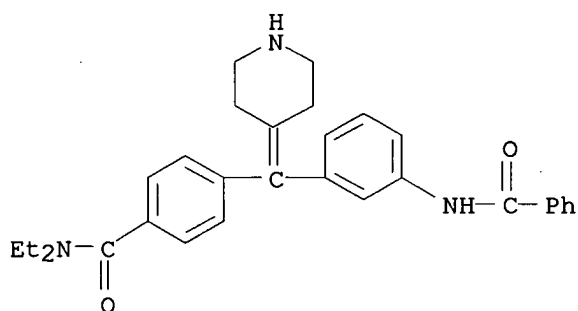
RN 692245-51-5 HCAPLUS

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RN 692245-55-9 HCAPLUS

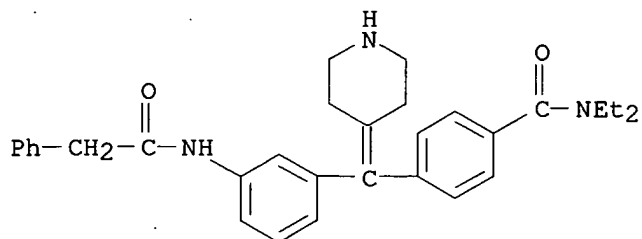
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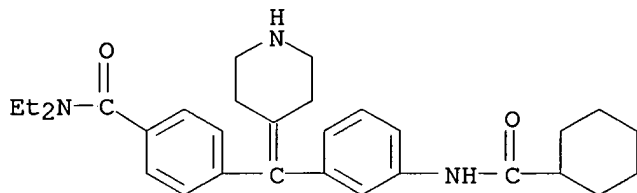
RN 692245-59-3 HCAPLUS

CN Benzeneacetamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]- (CA INDEX NAME)

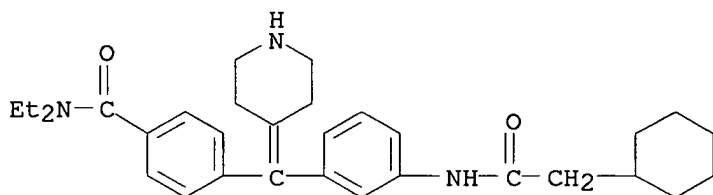
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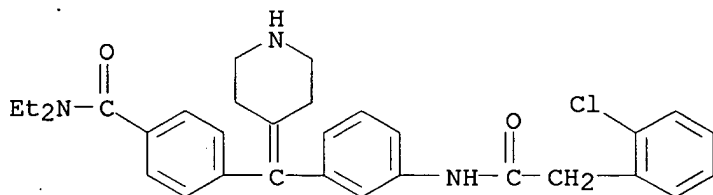
RN 692245-63-9 HCAPLUS
 CN Benzamide, 4-[[3-[(cyclohexylcarbonyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl- (CA INDEX NAME)



RN 692245-67-3 HCAPLUS
 CN Benzamide, 4-[[3-[(cyclohexylacetyl)amino]phenyl]-4-piperidinylidenemethyl]-N,N-diethyl- (9CI) (CA INDEX NAME)

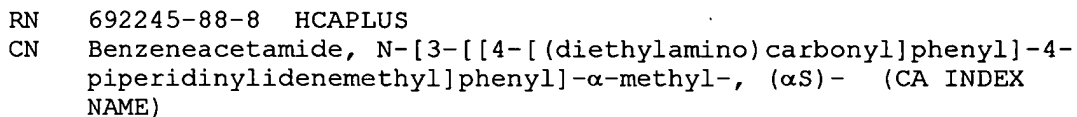
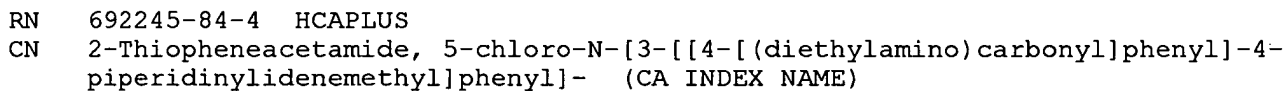
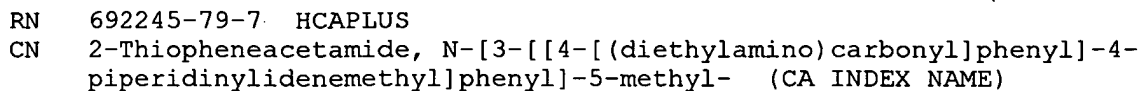


RN 692245-71-9 HCAPLUS
 CN Benzeneacetamide, 2-chloro-N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]- (CA INDEX NAME)

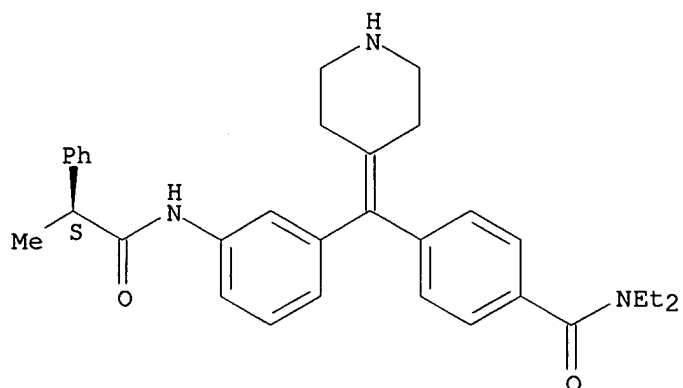


RN 692245-75-3 HCAPLUS
 CN Benzeneacetamide, 3-chloro-N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]- (CA INDEX NAME)

Updated Search



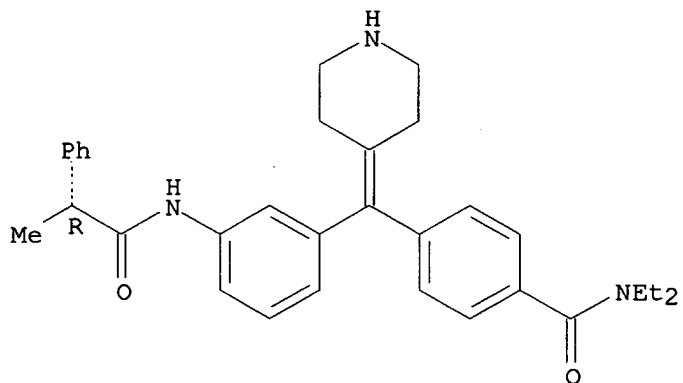
Updated Search



RN 692245-92-4 HCAPLUS

CN Benzeneacetamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]-α-methyl-, (αR)- (CA INDEX NAME)

Absolute stereochemistry.

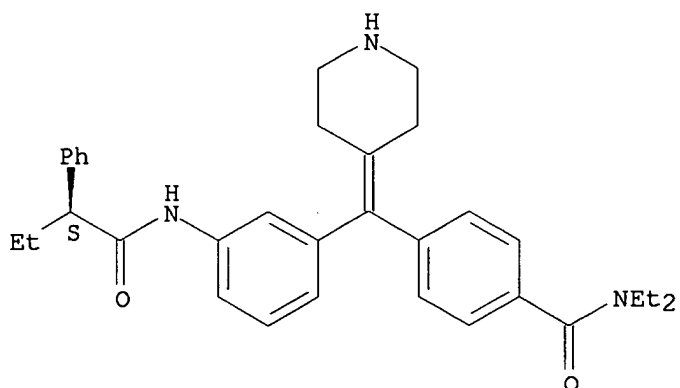


RN 692245-96-8 HCAPLUS

CN Benzeneacetamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]-α-ethyl-, (αS)- (CA INDEX NAME)

Absolute stereochemistry.

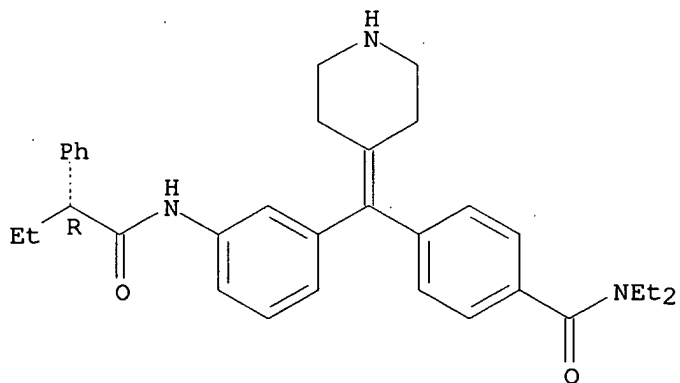
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RN 692246-00-7 HCAPLUS

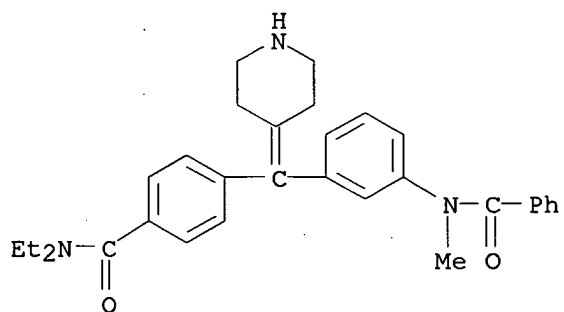
CN Benzeneacetamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinylidenemethyl]phenyl]-α-ethyl-, (αR)- (CA INDEX NAME)

Absolute stereochemistry.



RN 692246-04-1 HCAPLUS

CN Benzamide, 4-[[3-(benzoylmethylamino)phenyl]-4-piperidinylidenemethyl]-N,N-diethyl- (CA INDEX NAME)

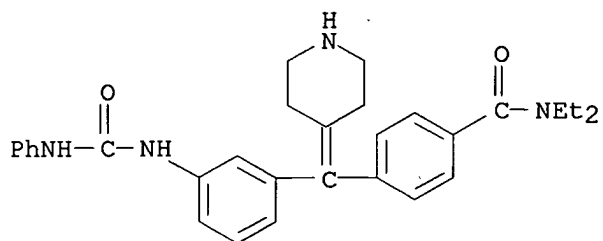


RN 692246-08-5 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[[[(phenylamino)carbonyl]amino]phenyl]-4-

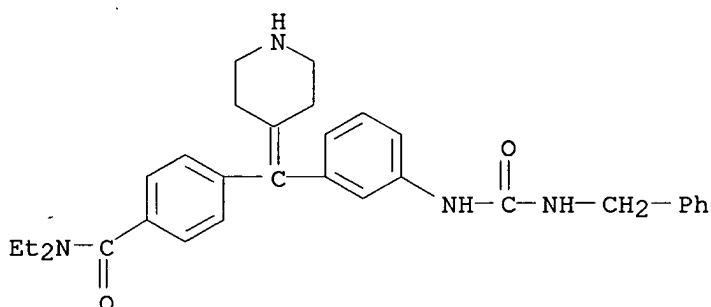
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piperidinyldenemethyl]- (CA INDEX NAME)



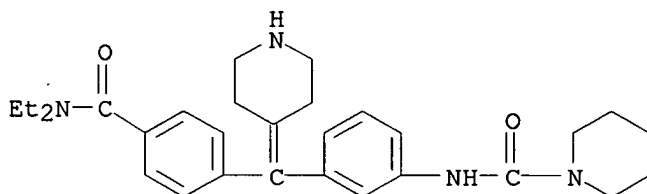
RN 692246-12-1 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[[[(phenylmethyl)amino]carbonyl]amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



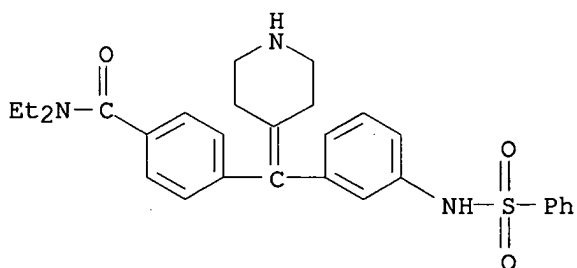
RN 692246-16-5 HCAPLUS

CN 1-Piperidinecarboxamide, N-[3-[[4-[(diethylamino)carbonyl]phenyl]-4-piperidinyldenemethyl]phenyl]- (CA INDEX NAME)



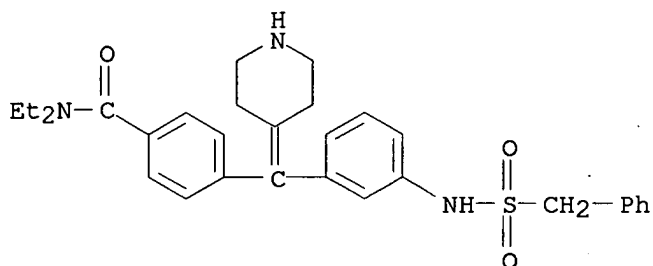
RN 692246-20-1 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[(phenylsulfonyl)amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)

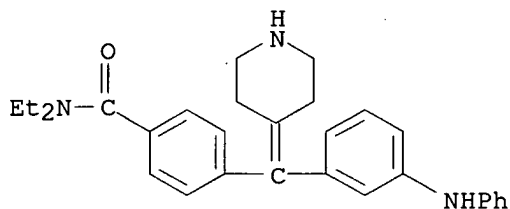


Updated Search

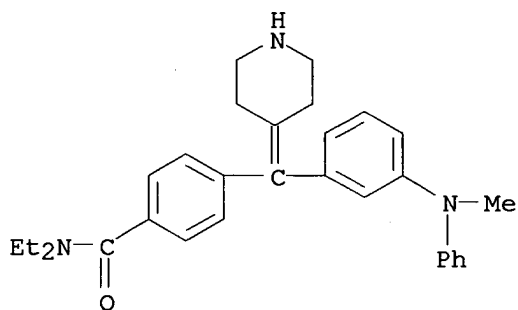
RN 692246-24-5 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-[[(phenylmethyl) sulfonyl] amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



RN 692246-28-9 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-(phenylamino)phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)

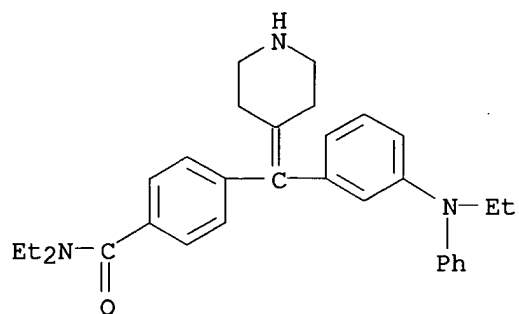


RN 692246-32-5 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-(methylphenylamino)phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



RN 692246-36-9 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-(ethylphenylamino)phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)

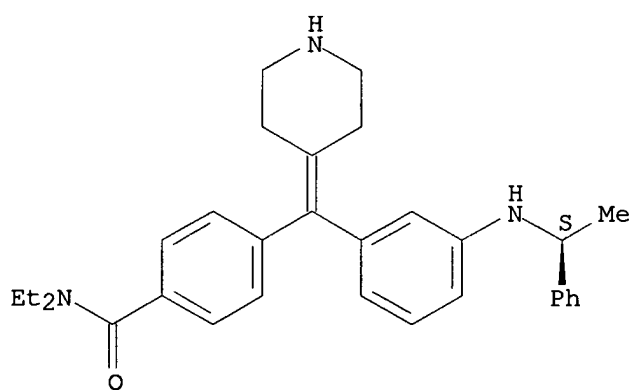
Updated Search



RN 692246-44-9 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[[1-phenylethyl]amino]phenyl]-4-piperidinylidenemethyl]- (CA INDEX NAME)

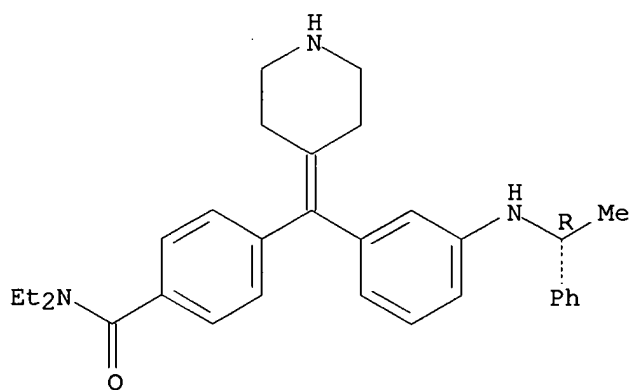
Absolute stereochemistry.



RN 692246-48-3 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[[1-phenylethyl]amino]phenyl]-4-piperidinylidenemethyl]- (CA INDEX NAME)

Absolute stereochemistry.



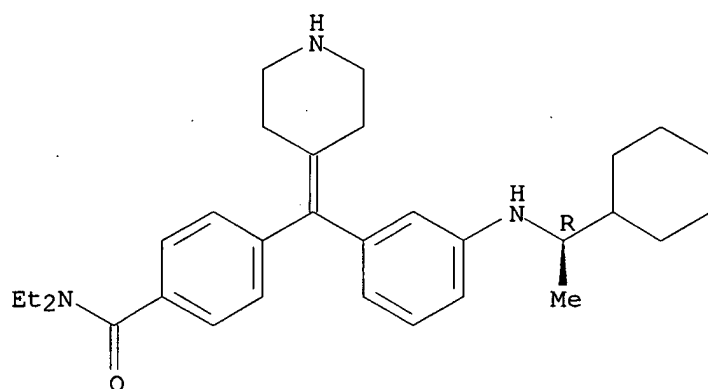
RN 692246-52-9 HCAPLUS

CN Benzamide, 4-[[3-[[1-cyclohexylethyl]amino]phenyl]-4-

Updated Search

piperidinyldenemethyl]-N,N-diethyl- (CA INDEX NAME)

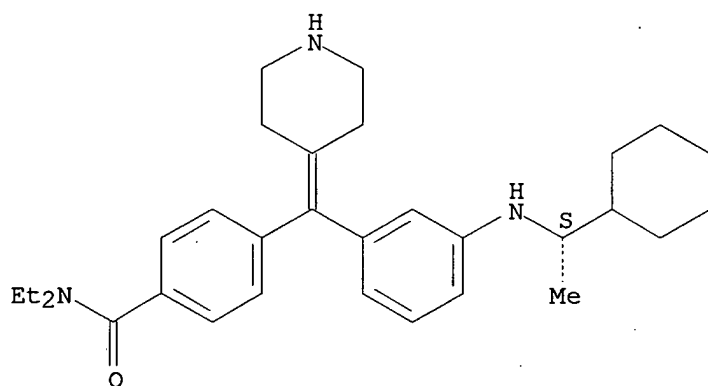
Absolute stereochemistry.



RN 692246-56-3 HCAPLUS

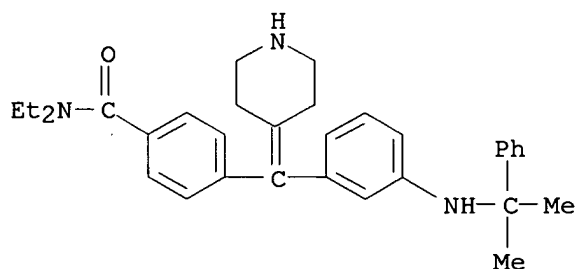
CN Benzamide, 4-[[3-[[[(1S)-1-cyclohexylethyl]amino]phenyl]-4-piperidinyldenemethyl]-N,N-diethyl- (CA INDEX NAME)

Absolute stereochemistry.



RN 692246-60-9 HCAPLUS

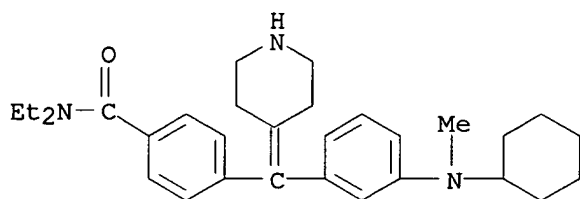
CN Benzamide, N,N-diethyl-4-[[3-[(1-methyl-1-phenylethyl)amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



RN 692246-64-3 HCAPLUS

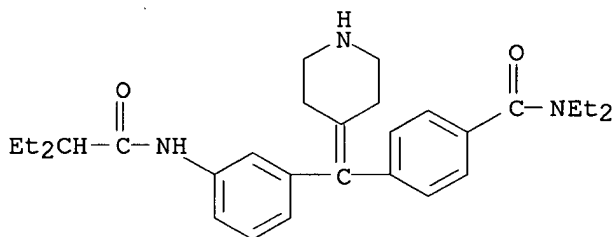
Updated Search

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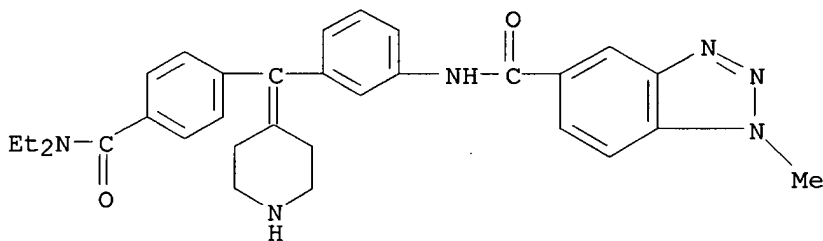
RN 692246-76-7 HCAPLUS

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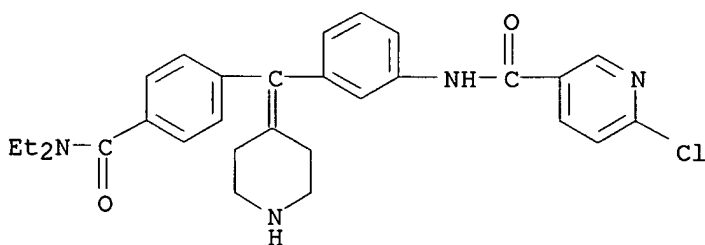
RN 692246-80-3 HCAPLUS

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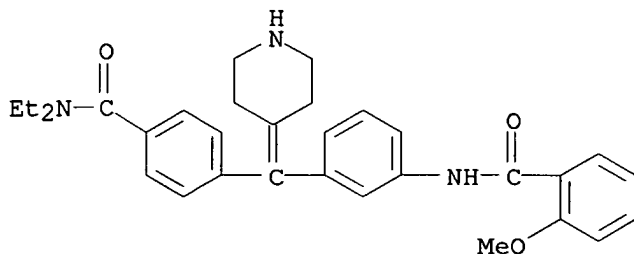
RN 692246-85-8 HCAPLUS

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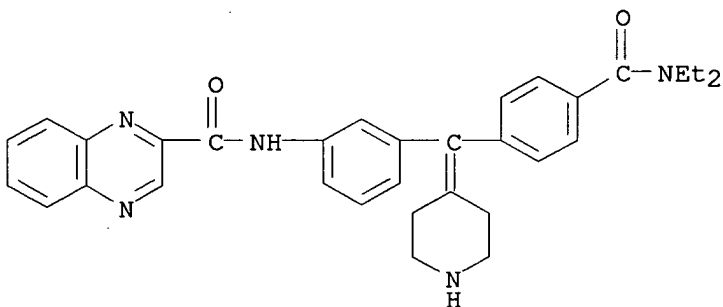


Updated Search

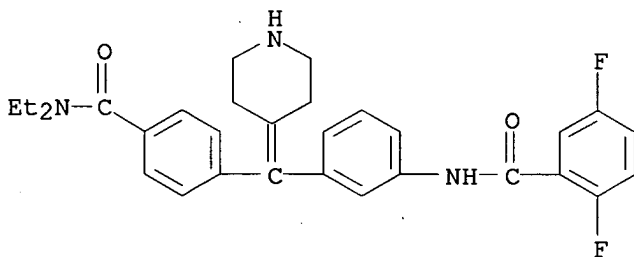
RN 692246-89-2 HCAPLUS
 CN Benzamide, N,N-diethyl-4-[[3-[(2-methoxybenzoyl)amino]phenyl]-4-piperidinyldenemethyl]- (CA INDEX NAME)



RN 692246-93-8 HCAPLUS
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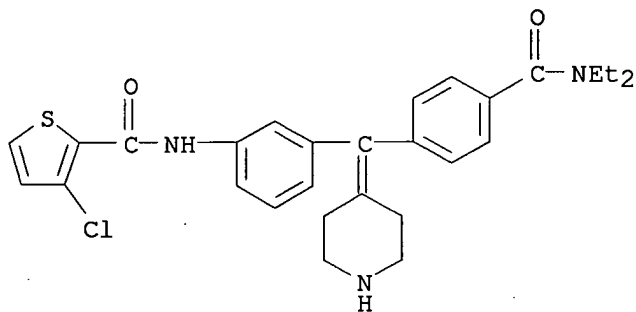


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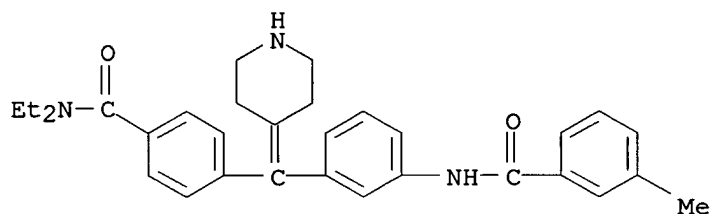
RN 692247-01-1 HCAPLUS
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Updated Search



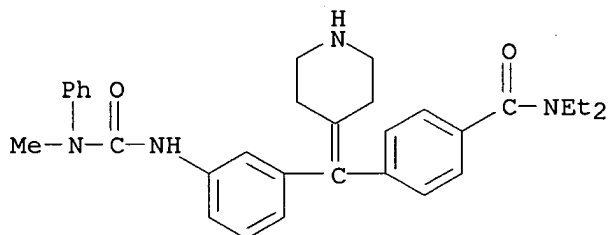
RN 692247-05-5 HCAPLUS

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RN 692247-09-9 HCAPLUS

CN Benzamide, N,N-diethyl-4-[[3-[(methylphenylamino)carbonyl]amino]phenyl]-4-piperidinylidenemethyl]- (CA INDEX NAME)



L5 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:906200 HCAPLUS

DOCUMENT NUMBER: 138:4523

TITLE: Preparation of 4-(phenyl-piperidin-4-ylidene-methyl)-benzamides as δ opioid receptor agonists for the treatment of pain, anxiety or gastrointestinal disorders

INVENTOR(S): Wei, Zhongyong; Brown, William; Walpole, Christopher

PATENT ASSIGNEE(S): Astrazeneca Ab, Swed.

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

Updated Search

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002094812	A1	20021128	WO 2002-SE953	20020516
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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AU 2002305992	A1	20021203	AU 2002-305992	20020516
EE 200300540	A	20040216	EE 2003-540	20020516
EP 1395576	A1	20040310	EP 2002-733710	20020516
EP 1395576	B1	20050831		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CN 1509282	A	20040630	CN 2002-810195	20020516
BR 2002009676	A	20040727	BR 2002-9676	20020516
HU 2004001096	A2	20040928	HU 2004-1096	20020516
JP 2005510457	T	20050421	JP 2002-591485	20020516
AT 303379	T	20050915	AT 2002-733710	20020516
IN 2003MN01010	A	20050624	IN 2003-MN1010	20031103
ZA 2003008633	A	20050207	ZA 2003-8633	20031105
BG 108326	A	20041230	BG 2003-108326	20031107
US 2004142967	A1	20040722	US 2003-477821	20031113
US 7074808	B2	20060711		
MX 2003PA10439	A	20040309	MX 2003-PA10439	20031114
IN 2004MN00262	A	20050429	IN 2004-MN262	20040506
PRIORITY APPLN. INFO.:			SE 2001-1765	A 20010518
			WO 2002-SE953	W 20020516
			IN 2003-MN1010	A3 20031103
OTHER SOURCE(S):			CASREACT 138:4523; MARPAT 138:4523	
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I; R1 = (un)substituted Ph, pyridyl, pyrrolyl, thienyl, furanyl, imidazolyl, triazolyl, thiazolyl and pyridyl N-oxide], useful in therapy, in particular in the management of pain, anxiety and functional gastrointestinal disorders, were prepared and formulated. Thus, treating the vinyl bromide II (5-step synthesis given) with TFA in CH₂Cl₂ followed by N-alkylation of the deprotected intermediate with PhCH₂Br, and coupling of III with 3-aminophenylboronic acid afforded I [R1 = Ph]. The exemplified compds. I showed IC₅₀ of 0.22-2.18 nM against δ receptor binding.

IT 477185-74-3P 477185-75-4P 477185-76-5P
477185-77-6P 477185-78-7P 477185-79-8P
477185-80-1P 477185-81-2P

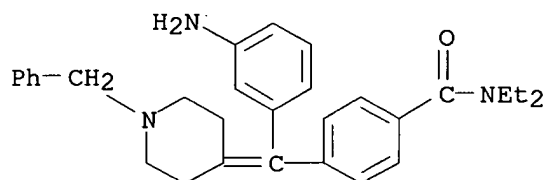
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

Updated Search

(preparation of 4-(phenyl-piperidin-4-ylidene-methyl)-benzamides as δ opioid receptor agonists for the treatment of pain, anxiety or gastrointestinal disorders).

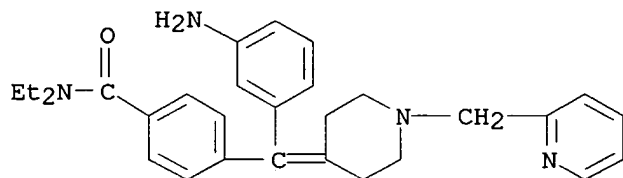
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CN Benzamide, 4-[(3-aminophenyl)[1-(phenylmethyl)-4-piperidinylidene]methyl]-N,N-diethyl- (CA INDEX NAME)



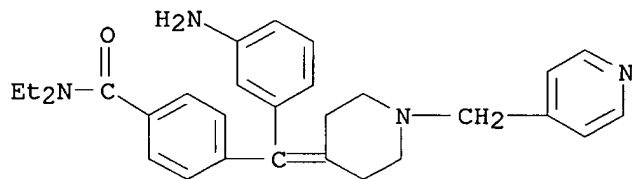
RN 477185-75-4 HCAPLUS

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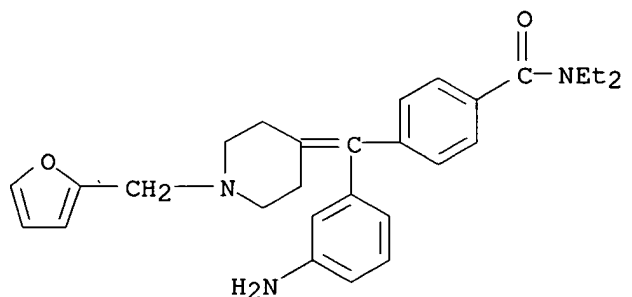
RN 477185-76-5 HCAPLUS

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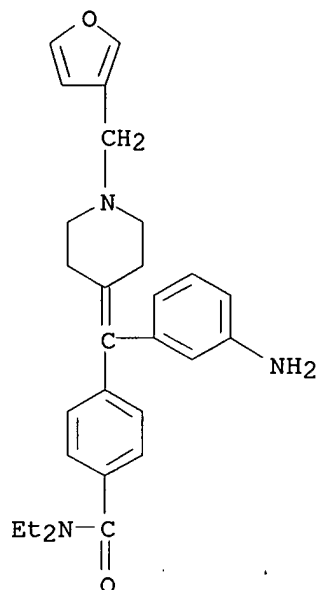
RN 477185-77-6 HCAPLUS

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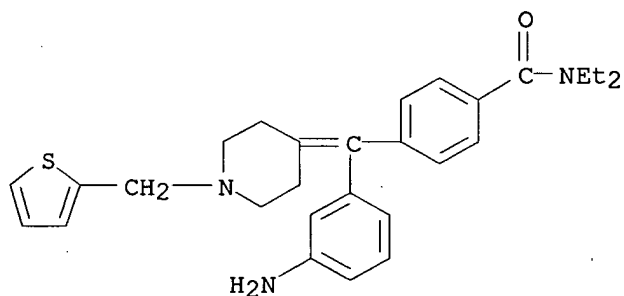


Updated Search

RN 477185-78-7 HCAPLUS
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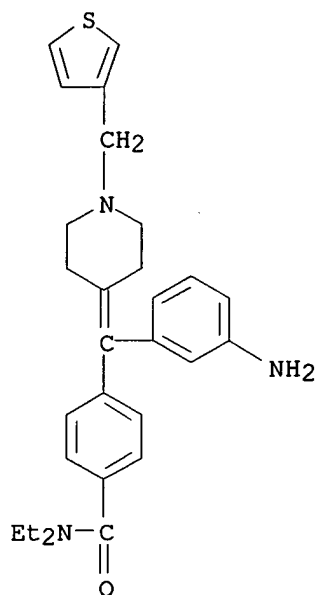


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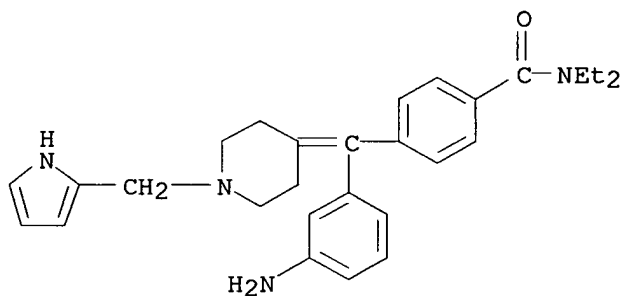
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Updated Search



RN 477185-81-2 HCAPLUS

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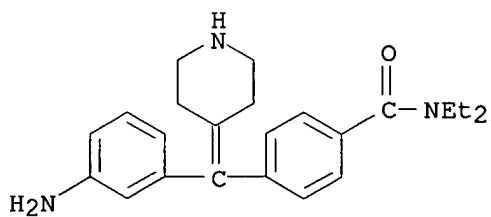
IT 209807-69-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of 4-(phenyl-piperidin-4-ylidene-methyl)-benzamides as δ opioid receptor agonists for the treatment of pain, anxiety or gastrointestinal disorders)

RN 209807-69-2 HCAPLUS

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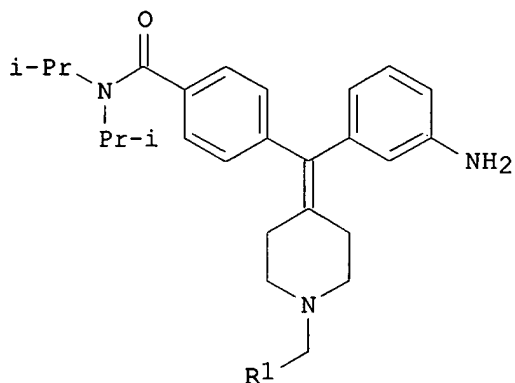


Updated Search

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2002:906158 HCAPLUS
 DOCUMENT NUMBER: 138:4531
 TITLE: Preparation of 4-(phenyl-piperidin-4-ylidene-methyl)-benzamides as δ opioid receptor agonists for the treatment of pain, anxiety or gastrointestinal disorders
 INVENTOR(S): Brown, William; Walpole, Christopher; Wei, Zhongyong
 PATENT ASSIGNEE(S): Astrazeneca Ab, Swed.
 SOURCE: PCT Int. Appl., 38 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002094786	A1	20021128	WO 2002-SE954	20020516
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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AU 2002307616	A1	20021203	AU 2002-307616	20020516
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EP 1395559	A1	20040310	EP 2002-771798	20020516
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BR 2002009677	A	20040727	BR 2002-9677	20020516
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JP 2005508292	T	20050331	JP 2002-591459	20020516
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PRIORITY APPLN. INFO.:			SE 2001-1766	A 20010518
			WO 2002-SE954	W 20020516
OTHER SOURCE(S):			CASREACT 138:4531; MARPAT 138:4531	
GI				



AB The title compds. [I; R1 = (un)substituted Ph, pyridyl, pyrrolyl, thienyl, furanyl, imidazolyl, triazolyl, thiazolyl and pyridyl N-oxide], useful in therapy, in particular in the management of pain, anxiety and functional gastrointestinal disorders, were prepared and formulated. E.g., two alternative multi-step preps. of the benzamide I [R1 = Ph], were given. The exemplified compds. I showed IC50 of 0.78-4.85 nM against δ receptor binding.

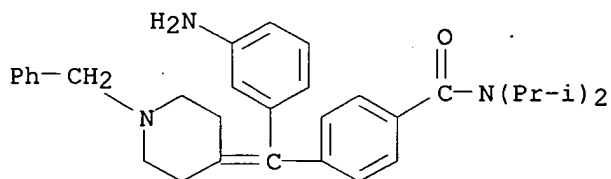
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 477185-88-9P 477185-89-0P 477185-90-3P
 477185-91-4P 477185-92-5P 477185-93-6P
 477185-94-7P 477185-95-8P 477185-96-9P
 477185-97-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 4-(phenyl-piperidin-4-ylidene-methyl)-benzamides as δ opioid receptor agonists for the treatment of pain, anxiety or gastrointestinal disorders)

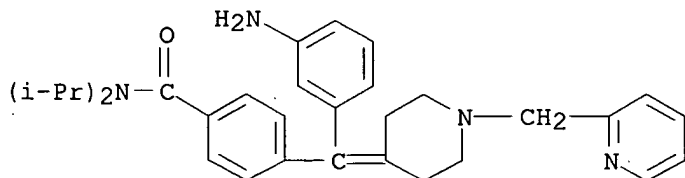
RN 477185-85-6 HCAPLUS

CN Benzamide, 4-[(3-aminophenyl)[1-(phenylmethyl)-4-piperidinylidene]methyl]-N,N-bis(1-methylethyl)- (CA INDEX NAME)



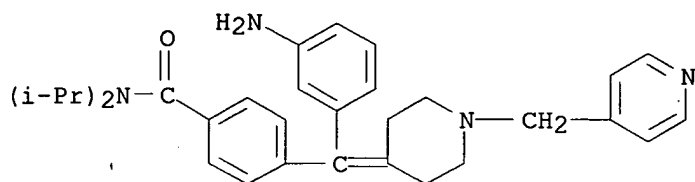
RN 477185-86-7 HCAPLUS

CN Benzamide, 4-[(3-aminophenyl)[1-(2-pyridinylmethyl)-4-piperidinylidene]methyl]-N,N-bis(1-methylethyl)- (CA INDEX NAME)

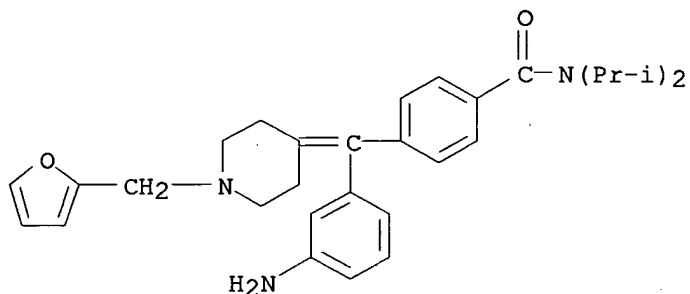


Updated Search

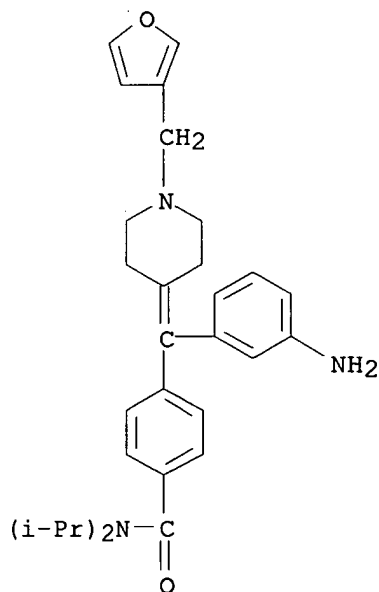
RN 477185-87-8 HCAPLUS
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RN 477185-88-9 HCAPLUS
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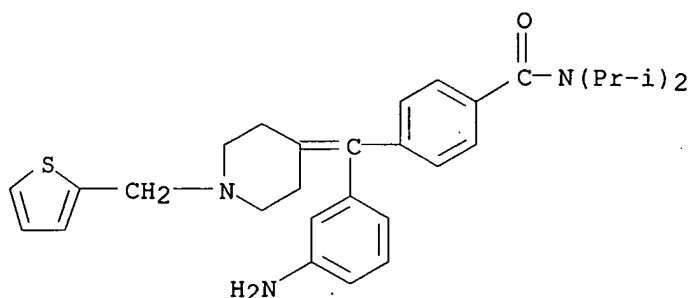
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RN 477185-90-3 HCAPLUS

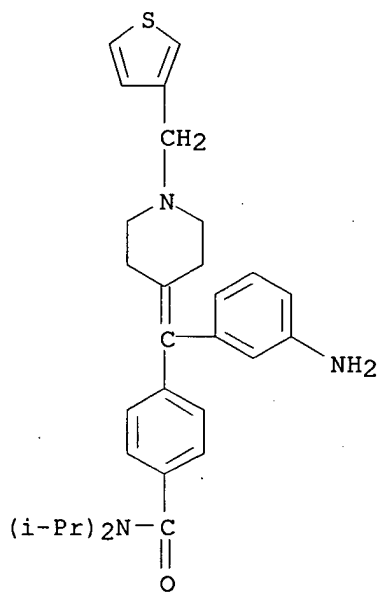
Updated Search

CN Benzamide, 4-[(3-aminophenyl)[1-(2-thienylmethyl)-4-piperidinylidene]methyl]-N,N-bis(1-methylethyl)- (CA INDEX NAME)



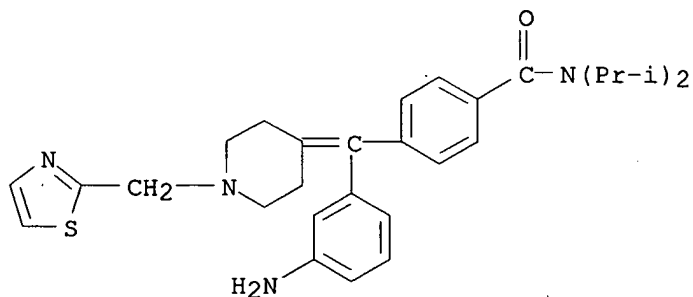
RN 477185-91-4 HCAPLUS

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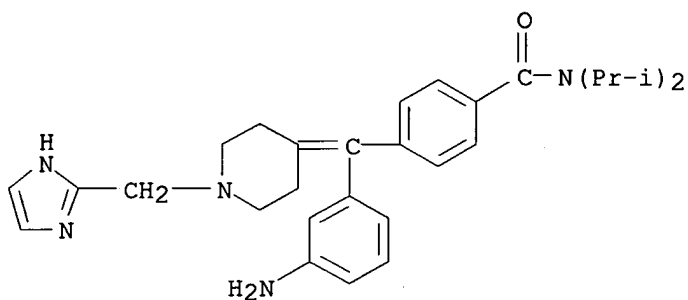
RN 477185-92-5 HCAPLUS

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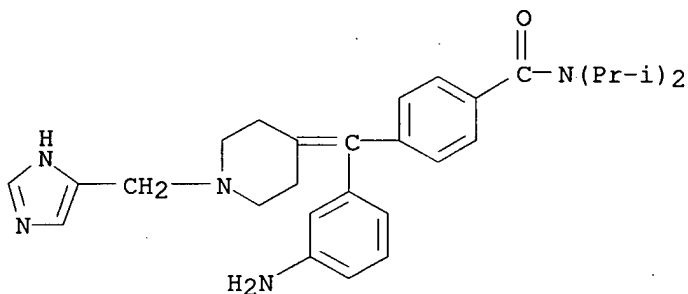


Updated Search

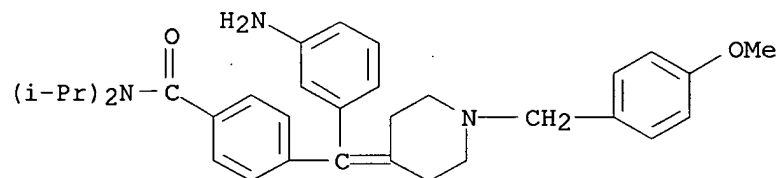
RN 477185-93-6 HCAPLUS
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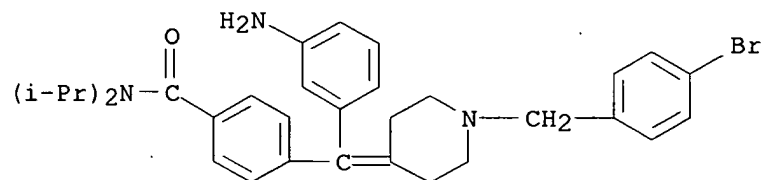
RN 477185-94-7 HCAPLUS
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RN 477185-95-8 HCAPLUS
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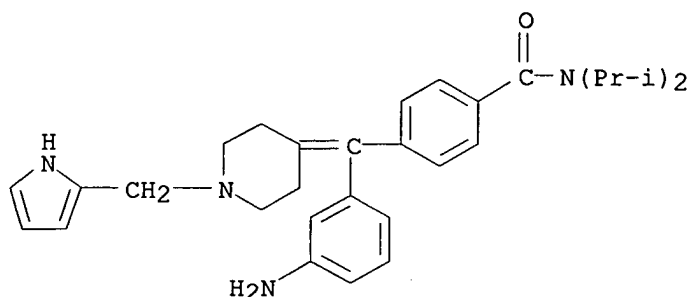


RN 477185-96-9 HCAPLUS
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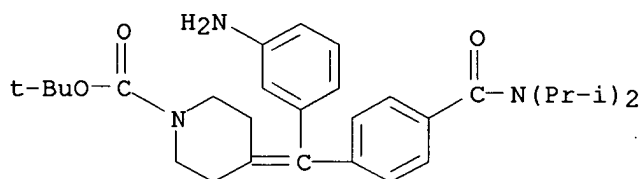
Updated Search

RN 477185-97-0 HCAPLUS
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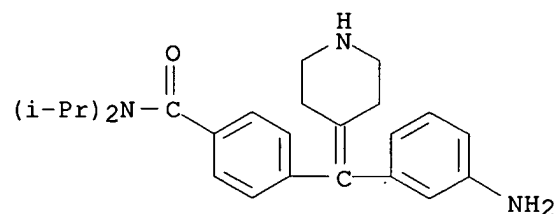


IT 477185-98-1P 477185-99-2P 477186-01-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of 4-(phenyl-piperidin-4-ylidene-methyl)-benzamides as δ opioid receptor agonists for the treatment of pain, anxiety or gastrointestinal disorders)

RN 477185-98-1 HCAPLUS
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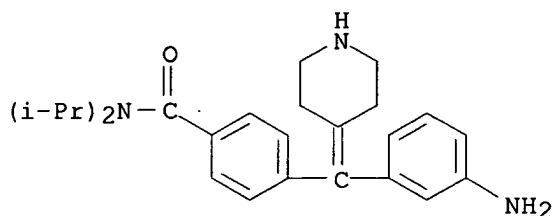


RN 477185-99-2 HCAPLUS
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RN 477186-01-9 HCAPLUS
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Updated Search



● 7/2 HCl

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L5 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:653166 HCAPLUS

DOCUMENT NUMBER: 134:4837

TITLE: N,N-Diethyl-4-(phenylpiperidin-4-ylidenemethyl)benzamide: A Novel, Exceptionally Selective, Potent δ Opioid Receptor Agonist with Oral Bioavailability and Its Analogues

AUTHOR(S): Wei, Zhong-Yong; Brown, William; Takasaki, Bryan; Plobeck, Niklas; Delorme, Daniel; Zhou, Fei; Yang, Hua; Jones, Paul; Gawell, Lars; Gagnon, Helene; Schmidt, Ralf; Yue, Shi-Yi; Walpole, Chris; Payza, Kemal; St-Onge, Stephane; Labarre, Maryse; Godbout, Claude; Jakob, Andrea; Butterworth, Joanne; Kamassah, Augustus; Morin, Pierre-Emmanuel; Projean, Denis; Ducharme, Julie; Roberts, Edward

CORPORATE SOURCE: Departments of Chemistry and Pharmacology, Astra Zeneca R&D Montreal, Saint-Laurent, QC, H4S 1Z9, Can.

SOURCE: Journal of Medicinal Chemistry (2000), 43(21), 3895-3905

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The design, synthesis, and pharmacol. evaluation of a novel class of δ opioid receptor agonists, N,N-diethyl-4-(phenylpiperidin-4-ylidenemethyl)benzamide (I) and its analogs, are described. These compds., formally derived from SNC-80 by replacing the piperazine ring with a piperidine ring containing an exocyclic carbon carbon double bond, were found to bind with high affinity and exhibit excellent selectivity for the δ opioid receptor as full agonists. I, the simplest structure in the class, exhibited an $IC_{50} = 0.87$ nM for the δ opioid receptors and extremely high selectivity over the μ receptors ($\mu/\delta = 4370$) and the κ receptors ($\kappa/\delta = 8590$). Rat liver microsome studies on a selected number of compds. show these olefinic piperidine compds. to be considerably more stable than SNC-80. This novel series of compds. appear to interact with δ opioid receptors in a similar way to SNC-80 since they demonstrate similar SAR. Two general approaches have been established for the synthesis of these compds., based on dehydration of benzhydryl alcs. and Suzuki coupling reactions of vinyl bromide.

IT 209807-56-7P 209807-69-2P 307992-28-5P
307992-32-1P

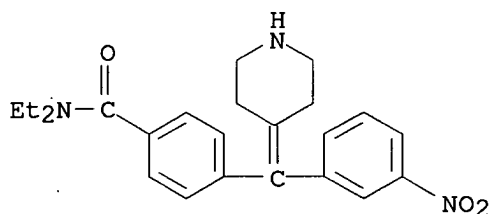
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RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of N,N-diethyl-4-(phenylpiperidin-4-ylidenemethyl)benzamide and its analogs as selective δ -opioid receptor agonists)

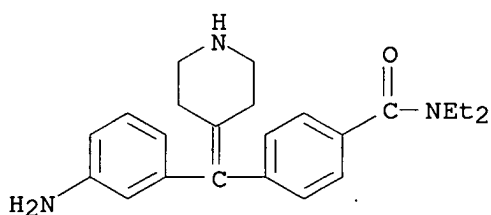
RN 209807-56-7 HCAPLUS

CN Benzamide, N,N-diethyl-4-[(3-nitrophenyl)-4-piperidinyldenemethyl]- (CA INDEX NAME)



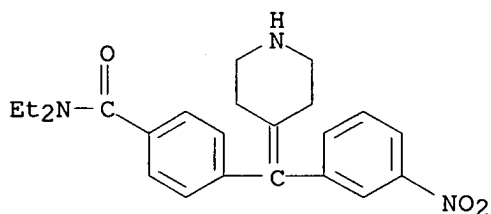
RN 209807-69-2 HCAPLUS

CN Benzamide, 4-[(3-aminophenyl)-4-piperidinyldenemethyl]-N,N-diethyl- (CA INDEX NAME)



RN 307992-28-5 HCAPLUS

CN Benzamide, N,N-diethyl-4-[(3-nitrophenyl)-4-piperidinyldenemethyl]-, hydrochloride (5:7) (CA INDEX NAME)

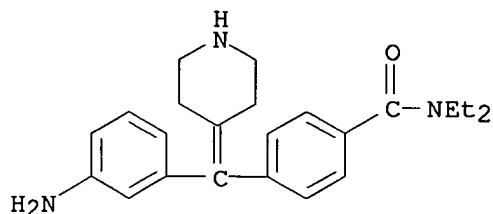


● 7/5 HCl

RN 307992-32-1 HCAPLUS

CN Benzamide, 4-[(3-aminophenyl)-4-piperidinyldenemethyl]-N,N-diethyl-, hydrochloride (5:6) (CA INDEX NAME)

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●6/5 HCl

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